

Publication List

Dr. Stefan Kraus

A) Articles in Refereed Journals (A&A, ApJ, ApJL, AJ, Nature):

53. Ellerbroek, L.E.; Benisty, M.; **Kraus, S.**; Perraut, K.; Kluska, J.; Le Bouquin, J. B.; Borges Fernandes, M.; Domiciano de Souza, A.; Maaskant, K.M.; Kaper, L.; Tramper, F.; Natta, A.; Mourard, D.; Tallon-Bosc, I.; ten Brummelaar, T.; Sitko, M.L.; Lynch, D.K.; Russell, R.W.; "A resolved, au-scale gas disk around the B[e] star HD50138", 2014, A&A, submitted
52. Vural, J.; Kreplin, A.; Kishimoto, M.; Weigelt, G.; Hofmann, K.-H.; **Kraus, S.**; Schertl, D.; Dugue, M.; Duvert, G.; Lagarde, S.; Massi, F.; "The inner circumstellar disk of the UX Ori star V1026 Sco", 2014, A&A 564, A118
51. Kraus, S.; "Combining optical spectroscopy and interferometry", 2014, AN 335, 51
50. Reipurth, B.; Bally, J.; Aspin, C.; Connelley, M.S.; Geballe, T.; **Kraus, S.**; Appenzeller, I.; Burgasser, A.; "HH222: A Giant Herbig-Haro Flow from the Quadruple System V380 Ori", 2013, AJ 146, 118
49. Richardson, N.D.; Schaefer, G.H.; Gies, D.R.; Chesneau, O.; Monnier, J.D.; Baron, F.; Che, X.; Parks, J.R.; Matson, R.A.; Touhami, Y.; Clemens, D.P.; Aldoretta, E.J.; Morrison, N.D.; ten Brummelaar, T.A.; McAlister, H.A.; **Kraus, S.**; Ridgway, S.T.; Sturmman, J.; Sturmman, L.; Taylor, B.; Turner, N.H.; Farrington, C.D.; Goldfinger, P.J., "The H-band Emitting Region of the Luminous Blue Variable P Cygni: Spectrophotometry and Interferometry of the Wind", 2013, ApJ 769, 118
48. **Kraus, S.**; Ireland, M.J.; Sitko, M.L.; Monnier, J.D.; Calvet, N.; Espaillat, C.; Grady, C.A.; Harries, T.J.; Hönic, S.F.; Russell, R.W.; Swearingen, J.R.; Werren, C.; Wilner, D., "Resolving the gap and AU-scale asymmetries in the pre-transitional disk of V1247 Orionis", 2013, ApJ 768, 80
47. Delaa, O.; Zorec, J.; Domiciano de Souza, A.; Mourard, D.; Perraut, K.; Stee, P.; Fremat, Y.; Monnier, J.D.; **Kraus, S.**; Che, X.; Berio, Ph.; Bonneau, D.; Chesneau, O.; Clause, J.M.; Challouf, M.; Ligi, R.; Meilland, A.; Millour, F.; Nardetto, N.; Spang, A.; Tallon-Bosc, I.; McAlister, H.; ten Brummelaar, T.; Sturmman, J.; Sturmman, L.; Turner, N.; Farrington, C.; Goldfinger, P.J.; "Spatially resolved interferometric observations of a Cephei and physical modeling of fast rotating stars", 2013, A&A 555, A100
46. Gallenne, A.; Monnier, J.D.; Merand, A.; Kervella, P.; **Kraus, S.**; Schaefer, G.H.; Gieren, W.; Pietrzynski, G.; Szabados, L.; Che, X.; Baron, F.; Pedretti, E.; McAlister, H.; ten Brummelaar, T.; Sturmman, J.; Sturmman, L.; Turner, N.; Farrington, C.; Vargas, N.; "Multiplicity of Galactic Cepheids from long-baseline interferometry. I. CHARA/MIRC detection of the companion of V1334 Cygni", 2013, A&A 552, A21
45. Kreplin, A.; Weigelt, G.; **Kraus, S.**; Grinin, V.; Hofmann, K.-H.; Kishimoto, M.; Schertl, D.; Tambovtseva, L.; Clause, J.-M.; Massi, F.; Perraut, K.; Stee, Ph.; "Revealing the inclined circumstellar disk in the UX Ori system KK Ophiuchi", 2013, A&A 551, A21
44. Grellmann, R.; Th. Preibisch; Ratzka, T.; **Kraus, S.**; Helminiak, K.G.; Zinnecker, H. "Multiplicity of massive stars in the Orion Nebula Cluster as seen with long-baseline interferometry", 2013, A&A 550, A82
43. Monnier, J.D.; Che, X.; Zhao, M.; Ekström, S.; Maestro, V.; Aufdenberg, J.; Baron, F.; Georgy, C.; **Kraus, S.**; McAlister, H.; Pedretti, E.; Ridgway, S.; Sturmman, J.; Sturmman, L.; ten Brummelaar, T.; Thureau, N.; Turner, N.; Tuthill, P.G.; "Resolving Vega and the inclination controversy with CHARA/MIRC", 2012, ApJ 761, L3
42. Che, X.; Monnier, J.D.; Tycner, C.; **Kraus, S.**; Zavala, R.T.; Baron, F.; Pedretti, E.; ten Brummelaar, T.; McAlister, H.; Ridgway, S.T.; Sturmman, J.; Sturmman, L.; Turner, L.; "Imaging disk distortion of the Be binary system δ Scorpii near periastron", 2012, ApJ 757, 28

41. Wang, Y.; Weigelt, G.; Kreplin, A.; Hofmann, K.-H.; **Kraus, S.**; Miroshnichenko, A.S.; Schertl, D.; Chelli, A.; Domiciano de Souza, A.; Massi, F.; Robbe-Dubois, S.; "AMBER/VLTI observations of the B[e] star MWC300: close binary and the circum-binary disk", 2012, A&A 545, L10
40. **Kraus, S.**; Calvet, N.; Hartmann, L.; Hofmann, K.-H.; Kreplin, A.; Monnier, J.-D.; Weigelt, G.; "On the nature of the Herbig B[e] star binary system V921 Scorpii: II. Geometry and kinematics of the circumprimary disk on sub-AU scales", 2012, ApJ 752, 11
39. Vural, J.; Kreplin, A.; **Kraus, S.**; Weigelt, G.; Driebe, T.; Benisty, M.; Dugue, M.; Massi, F.; Monin, J.-L.; Vannier, M.; "Revealing the inner circumstellar disk of the T Tauri star S CrA N using the VLTI", 2012, A&A 543, A162
38. Chen, L.; Kreplin, A.; Wang, Y.; Weigelt, G.; Hofmann, K.-H.; **Kraus, S.**; Schertl, D.; Lagarde, S.; Natta, A.; Petrov, R.; Robbe-Dubois, S.; Tatulli, E.; "Near-infrared interferometric observation of the Herbig Ae star HD144432 with VLTI/AMBER", 2012, A&A 541, A104
37. **Kraus, S.**; Calvet, N.; Hartmann, L.; Hofmann, K.-H.; Kreplin, A.; Monnier, J.-D.; Weigelt, G.; "On the nature of the Herbig B[e] star binary system V921 Scorpii: I. Discovery of a close companion and relation to the large-scale bipolar nebula", 2012, ApJ 746, L2
36. Kreplin, A.; **Kraus, S.**; Hofmann, K.-H.; Schertl, D.; Weigelt, G.; Driebe, T.; "Resolving the circumstellar environment of the B[e] star V921 Sco in the near-infrared with VLTI/AMBER", 2012, A&A 537, A103
35. Sitko, M.L.; Day, A.N.; Kimes, R.L.; Beerman, L.C.; Martus, C.; Lynch, D.K.; Russell, R.W.; Grady, C.A.; Schneider, G.; Lisse, C.M.; Nuth, J.A.; Curé, M.; Henden, A.A.; **Kraus, S.**; Motta, V.; Tamura, M.; Hornbeck, J.; Williger, G.M.; Fugazza, D.; "Variability of Disk Emission in Pre-Main Sequence and Related Stars. II. Variability in the Gas and Dust Emission of the Herbig Fe Star SAO 206462", 2012, ApJ 745, 29
34. **Kraus, S.**; Monnier, J.D.; Che, X.; Schaefer, G.; Touhami, Y.; Gies, D.R.; Aufdenberg, J.P.; Baron, F.; Thureau, N.; ten Brummelaar, T.A.; McAlister, H.A.; Turner, N.H.; Sturmman, J.; Sturmman, L.; "Gas distribution, kinematics, and excitation structure in the disks around the classical Be star β Canis Minoris and ζ Tauri", 2012, ApJ 744, 19
33. Grellmann, R.; Ratzka, Th.; **Kraus, S.**; Linz, H.; Preibisch, Th.; Weigelt, G. "Mid-infrared interferometry of the massive young stellar object NGC2264 IRS1", 2011, A&A 532, A109
32. Monnier, J.D.; Zhao, M.; Pedretti, E.; Millan-Gabet, R.; Berger, J.-P.; Traub, W.; Schloerb, F.P.; ten Brummelaar, T.; McAlister, H.; Ridgway, S.; Sturmman, L.; Sturmman, J.; Turner, N.; Baron, F.; **Kraus, S.**; Tannirkulam, A.; Williams, P.M., "First visual orbit for the prototypical colliding-wind binary WR 140", 2011, ApJL 742, 1
31. Weigelt, G.; Grinin, V.P.; Groh, J.H.; Hofmann, K.-H.; **Kraus, S.**; Miroshnichenko, A.S.; Schertl, D.; Tambovtseva, L.V.; Benisty, M.; Driebe, T.; Lagarde, S.; Malbet, F.; Meilland, A.; Petrov, R.; Tatulli, E., "VLTI/AMBER spectro-interferometry of the Herbig Be star MWC 297 with spectral resolution 12 000", 2011, A&A 527,103
30. Millour, F.; Meilland, A.; Chesneau, O.; Stee, P.; Kanaan, S.; Petrov, R.; Mourard, D.; **Kraus, S.**, "The building-up of a Keplerian disk around a massive supergiant under the influence of a low mass companion", 2011, A&A 526, 107
29. **Kraus, S.**; Hofmann, K.-H.; Menten, K.M.; Schertl, D.; Weigelt, G.; Wyrowski, F.; Meilland, A.; Perraut, K.; Petrov, R.; Robbe-Dubois, S.; Schilke, P.; Testi, L., "A hot compact dust disk around a massive young stellar object", 2010, Nature 466, 339-342
28. Groh, J.H.; Nielson, E.; Damineli, A.; Gull, T.R.; Madura, T.I.; Hillier, D.J.; Teodoro, T.; Driebe, T.; Weigelt, G.; Hartman, H.; Kerber, F.; Okazaki, A.T.; Owocki, S.P.; Millour, F.; Murakawa, K.; **Kraus, S.**; Hofmann, K.-H.; Schertl, D., "Detection of high-velocity material from the wind-wind collision zone of Eta Carinae across the 2009.0 periastron passage", 2010, A&A 517, A9
27. Benisty, M.; Natta, A.; Isella, A.; Berger, J.-P.; Massi, F.; Le Bouquin, J.-B.; Merand, A.; Duvert, G.; **Kraus, S.**; Malbet, F.; Olofsson, J.; Robbe-Dubois, S.; Testi, L.; Vannier, M.; Weigelt, G., "Strong near-infrared emission in the sub-AU disk of the Herbig Ae star HD 163296: evidence of refractory dust?", 2010, A&A 511, A74

26. **Kraus, S.**; Hofmann, K.-H.; Malbet, F.; Meilland, A.; Natta, A.; Schertl, D.; Stee, P.; Weigelt, G., "Revealing the sub-AU asymmetries of the inner dust rim in the disk around the Herbig Ae star R Coronae Australis", 2009, A&A 508, 787
25. Driebe, T.; Groh, J.H.; Hofmann, K.-H.; Ohnaka, K.; **Kraus, S.**; Millour, F.; Murakawa, K.; Schertl, D.; Weigelt, G.; Petrov, R.; Wittkowski, M.; Hummel, C.A.; Le Bouquin, J.-B.; Merand, A.; Schöller, M.; Massi, F.; Stee, P.; Tatulli, E., "Resolving the asymmetric inner wind region of the yellow hypergiant IRC+10420 with VLT/AMBER in low and high spectral resolution", 2009, A&A 507, 301
24. Miroshnichenko, A.S.; Hofmann, K.-H.; Schertl, D.; Weigelt, G.; **Kraus, S.**; Manset, N.; Albert, L.; Balega, Y.Y.; Klochkova, V.G.; Rudy, R.J.; Lynch, D.K.; Mazuk, S.; Venturini, C.C.; Grankin, K.N.; Puetter, R.C.; Perry, R.B., "A new spectroscopic and interferometric study of the young stellar object V645 Cyg", 2009, A&A 498, 115-126
23. **Kraus, S.**; Weigelt, G.; Balega, Y.Y.; Docobo, J.A.; Hofmann, K.-H.; Preibisch, T.; Schertl, D.; Tamazian V.S.; Driebe, T.; Ohnaka, K.; Petrov, R.; Schöller, M.; Smith, M., "Tracing the young massive high-eccentricity binary system θ^1 Orionis C through periastron passage", 2009, A&A 497, 195-207
22. Murakawa, K.; Preibisch, T.; **Kraus, S.**; Weigelt, G.: "HK-band imaging polarimetry and radiative transfer modeling of the massive young stellar object CRL 2136", 2008, A&A 490, 673-684
21. Nardetto, N.; Groh, J. H.; **Kraus, S.**; Millour, F.; Gillet, D.: "High-resolution spectroscopy for Cepheids distance determination: IV. Time series of H α line profiles", 2008, A&A 489, 1263-1269
20. Murakawa, K.; Preibisch, T.; **Kraus, S.**; Ageorges, N.; Hofmann, K.-H.; Ishii, M.; Oya, S.; Rosen, A.; Schertl, D.; Weigelt, G., "VLT/NACO and Subaru/CIAO JHK-band high-resolution imaging polarimetry of the Herbig Be star R Monocetoris", 2008, A&A 488, L75-L78
19. **Kraus, S.**; Hofmann, K.-H.; Benisty, M.; Berger, J.-P.; Chesneau, O.; Isella, A.; Malbet, F.; Meilland, A.; Nardetto, N.; Natta, A.; Preibisch, Th.; Schertl, D.; Smith, M.; Stee, P.; Tatulli, E.; Testi, L.; Weigelt, G., "The origin of hydrogen line emission for five Herbig Ae/Be stars spatially resolved by VLT/AMBER spectro-interferometry", 2008, A&A 489, 1157-1173
18. Tatulli, E.; Malbet, F.; Menard, F.; Gil, C.; Testi, L.; Natta, A.; **Kraus, S.**; Stee, P.; Robbe-Dubois, S., "Spatially resolving the hot CO around the young Be star 51 Ophiuchi", 2008, A&A 489, 1171
17. Pott, J.-U.; Eckart, A.; Glindemann, A.; **Kraus, S.**; Schödel, R.; Ghez, A. M.; Woillez, J.; Weigelt, G., "First VLT infrared spectro-interferometry on GC-IRS 7 - Characterizing the prime reference source for Galactic center observations at highest angular resolution", 2008, A&A 487, 413-418
16. Chesneau, O.; Banerjee, D.; Millour, F.; Nardetto, N.; Spang, A.; Sacuto, S.; Wittkowski, M.; Ashok, N. M.; Das, R. K.; Hummel, Ch.; **Kraus, S.**; Lagadec, E.; Morel, S.; Petr-Gotzens, M.; Rantakyro, F. T.; Schöller, M., "VLT monitoring of the dust formation event of the Nova V1280 Sco", 2008, A&A 487, 223-235
15. **Kraus, S.**; Preibisch, Th.; Ohnaka, K., "Detection of an inner gaseous component in a Herbig Be star accretion disk: Near- and mid-infrared spectro-interferometry and radiative transfer modeling of MWC 147", 2008, ApJ 676, 490
14. **Kraus, S.**; Balega, Y.; Berger, J.-P.; Hofmann, K.-H.; Millan-Gabet, R.; Monnier, J. D.; Ohnaka, K.; Pedretti, E.; Preibisch, Th.; Schertl, D.; Schloerb, F. P.; Traub, W. A.; Weigelt, G., "Visual/Infrared interferometry of Orion Trapezium stars: preliminary dynamical orbit and aperture synthesis imaging of the θ^1 Orionis C system", 2007, A&A 466, 649-659
13. Millour, F.; Petrov, R.; Chesneau, O.; Bonneau, D.; Dessart, L.; Bechet, C.; AMBER consortium (**Kraus, S.**), "Direct constraint on the distance of γ^2 Velorum from AMBER/VLT observations", 2007, A&A 464, 107-118

12. Weigelt, G.; **Kraus, S.**; Driebe, T.; Petrov, R.G.; Hofmann, K.-H.; Millour, F.; Chesneau, O.; AMBER consortium, "Near-infrared interferometry of η Carinae with spectral resolutions of 1500 and 12000 using AMBER/VLTI", 2007, A&A 464, 87-106
11. Domiciano de Souza, A.; Driebe, T.; Chesneau, O.; Hofmann, K.-H.; **Kraus, S.**; Miroshnichenko, A.S.; Ohnaka, K.; Petrov, R.G.; Preibisch, Th.; Stee, P.; Weigelt, G., "VLTI/AMBER and VLTI/MIDI spectro-interferometric observations of the B[e] supergiant CPD-57°2874", 2007, A&A 464, 81-86
10. Meilland, A.; Millour, F.; Stee, P.; AMBER consortium (**Kraus, S.**), "An asymmetry detected in the disk of κ CMa with VLTI/AMBER", 2007, A&A 464, 73-79
9. Tatulli, E.; Isella, A.; Natta, A.; AMBER consortium (**Kraus, S.**), "Constraining the wind launching region in Herbig Ae stars: AMBER/VLTI spectroscopy of HD104237", 2007, A&A 464, 55-58
8. Malbet, F.; Benisty, M.; de Wit, W.J.; **Kraus, S.**; Meilland, A.; Millour, F.; Tatulli, E.; Berger, J.-P.; Chesneau, O.; AMBER consortium: "Disk and wind interaction in the young stellar object MWC 297 spatially resolved with VLTI/AMBER", 2007, A&A 464, 43-53
7. Tatulli, E.; Millour, F.; Chelli, A.; Duvert, G.; Acke, B.; Hernandez Utera, O.; Hofmann, K.-H.; **Kraus, S.**; Malbet, F., AMBER consortium (88 coauthors), "Interferometric data reduction with AMBER/VLTI. Principle, estimators and illustration", 2007, A&A 464, 29-42
6. Robbe-Dubois, S.; Lagarde, S.; Petrov, R. G.; AMBER consortium (**Kraus, S.**), "Optical configuration and analysis of the AMBER/VLTI instrument", 2007, A&A 464, 13-27
5. Petrov, P. G.; Malbet, F.; Weigelt, G.; AMBER consortium (**Kraus, S.**), "AMBER, the near-infrared spectro-interferometric three telescopes VLTI instrument", 2007, A&A 464, 1-12
4. **Kraus, S.**; Balega, Y.; Elitzur, M.; Hofmann, K.-H.; Preibisch, Th.; Rosen, A.; Schertl, D.; Weigelt, G.; Young, E. T., "Outflows from the high-mass protostars NGC 7538 IRS1/2 observed with bispectrum speckle interferometry - Signatures of flow precession", 2006, A&A 455, 512-537
3. Preibisch, Th.; **Kraus, S.**; Driebe, Th.; van Boekel, R.; Weigelt, G., "A compact dusty disk around the Herbig Ae star HR 5999 resolved with VLTI / MIDI", 2006, A&A 458, 235-243
2. **Kraus, S.**; Schloerb, F. P.; Traub, W. A.; Carleton, N. P.; Lacasse, M.; Pearlman, M.; Monnier, J. D.; Millan-Gabet, R.; Berger, J.-P.; Haguenaer, P.; Perraut, K.; Kern, P.; Malbet, F.; Labeye, P., "Infrared Imaging of Capella with the IOTA Closure Phase Interferometer", 2005, AJ 130, 246-255
1. Monnier, J. D.; Traub, W. A.; Schloerb, F. P.; Millan-Gabet, R.; Berger, J.-P.; Pedretti, E.; Carleton, N. P.; **Kraus, S.**; Lacasse, M. G.; Brewer, M.; Ragland, S.; Ahearn, A.; Coldwell, C.; Haguenaer, P.; Kern, P.; Labeye, P.; Lagny, L.; Malbet, F.; Malin, D.; Maymounkov, P.; Morel, S.; Papiolios, C.; Perraut, K.; Pearlman, M.; Porro, I. L.; Schanen, I.; Souccar, K.; Torres, G.; Wallace, G., "First Results with the IOTA3 Imaging Interferometer: The Spectroscopic Binaries λ Virginis and WR 140", 2004, ApJ 602, L57-L60

B) Book Contributions:

1. Weigelt, G.; **Kraus, S.**, "High-resolution studies of η Carinae's ejecta and stellar wind" in "Eta Carinae and the Supernova Imposters", eds. Davidson, K. and Humphreys, R., Springer-Verlag, 2012, ISBN-10: 1461422744

C) Conference Proceedings:

33. Kluska, J.; Malbet, F.; Berger, J.-P.; Benisty, M.; Lazareff, B.; Le Bouquin, J.-B.; Baron, F.; Dominik, C.; Isella, A.; Juhasz, A.; **Kraus, S.**; Lachaume, R.; Menard, F.; Millan-Gabet, R.; Monnier, J.; Pinte, C.; Soulez, F.; Tallon, M.; Thi, W.-F.; Thiebaut, E.; Zins, G., "Imaging Young Stellar Objects with VLTI/PIONIER", 2014, Proceedings of Haute Provence Observatory Colloquium „Improving the performances of current optical interferometers & future designs"
32. Kluska, J.; Malbet, F.; Berger, J.-P.; Benisty, M.; Lazareff, B.; Le Bouquin, J.-B.; Baron, F.; Dominik, C.; Isella, A.; Juhasz, A.; **Kraus, S.**; Lachaume, R.; Menard, F.; Millan-Gabet, R.;

- Monnier, J.; Pinte, C.; Soulez, F.; Tallon, M.; Thi, W.-F.; Thiebaut, E.; Zins, G., *"First images from the PIONIER/VLTI optical interferometry imaging survey of Herbig Ae/Be stars"*, 2014, IAU symposium 299, 117
31. Che, X.; Monnier, J.D.; **Kraus, S.**; Baron, F.; Pedretti, E.; Thureau, N.; Webster, S., *"Imaging with the first 6-beam infrared combiner"*, 2012, Proc. SPIE 8445, 0Z-15
 30. **Kraus, S.**; Monnier, J.D.; Baron, F.; Che, X.; Millan-Gabet, R.; Pedretti, E.; Thureau, N., *"Control interface concepts for CHARA 6-telescope fringe tracking with CHAMP+MIRC"*, 2012, Proc. SPIE 8445, 3A-6
 29. **Kraus, S.**, *"New opportunities with spectro-interferometry & spectro-astrometry"*, 2012, Proc. SPIE 8445, 1H-15
 28. Monnier, J.D.; Anderson, M.; Baron, F.; Berger, D.H.; Che, X.; Eckhause, T.; **Kraus, S.**; Pedretti, E.; Thureau, N.; Millan-Gabet, R.; Ten Brummelaar, T.; Irwin, P.; Zhao, M., *"MI-6: Michigan interferometry with six telescopes"*, 2010, Proc. SPIE Vol. 7334, 73340G
 27. **Kraus, S.**; Hofmann, K.-H.; Menten, K.M.; Schertl, D.; Weigelt, G.; Wyrowski, F.; Meilland, A.; Perraut, K.; Petrov, R.; Robbe-Dubois, S.; Schilke, P.; Testi, L., *"First results from VLTI near-infrared interferometry on high-mass young stellar objects"*, 2010, Proc. SPIE Vol. 7734, 773408
 26. **Kraus, S.**; Hofmann, K.-H.; Preibisch, T.; Weigelt, G., *"Infrared interferometry of young stellar objects"*, 2010, Revista Mexicana Astronomia y Astrofisica, Vol. 38, 63
 25. Nardetto, N.; Kervella, P.; Barnes, T.; Bersier, D.; Fokin, A.; Fouque, P.; Gieren, W.; Gillet, D.; Groh, J.H.; **Kraus, S.**; Mathias, P.; Merand, A.; Millour, F.; Mourard, D.; Pietrzynski, G.; Queloz, D.; Stoekl, A.; Storm, J., *"From the Dynamics of Cepheids to the Milky Way Rotation, and the Distance Scale Calibration"*, 2009, AIP Conf. Proc. 1170, 13-17
 24. Pott, J.-U.; Eckart, A.; Ghez, A.; **Kraus, S.**, *"Science with large-aperture infrared interferometry – size does matter or talking about a new tool to study the galactic center"*, 2008, Journal of Physics, IOP 131, 012014
 23. **Kraus, S.**; Hofmann, K.-H.; Ohnaka, K.; Preibisch, T.; Weigelt, G., *"Infrared Spectro-interferometry of YSOs"*, 2008, Proc. SPIE Vol. 7013, 70130R
 22. Lagarde, S.; Lopez, B.; Petrov, R.; Hofmann, K.-H.; **Kraus, S.**; Jaffe, W.; Antonelli, P.; Bresson, Y.; Leinert, Ch.; Matter, A., *"MATISSE: concept analysis"*, 2008, Proc. SPIE Vol. 7013, 70133Z
 21. Hofmann, K.-H., Heiniger, M.; Jaffe, W.; **Kraus, S.**; Lopez, B.; Millour, F.; Schertl, D.; Weigelt, G.; Wolf, S., *"Aperture-synthesis imaging with the mid-infrared instrument MATISSE"*, 2008, Proc. SPIE Vol. 7013, 70133Y
 20. Lopez, B.; Antonelli, P.; Wolf, S.; MATISSE consortium (**Kraus, S.**), *"MATISSE - perspective of imaging in the mid-infrared at the VLTI"*, 2008, Proc. SPIE Vol. 7013, 70133ZB
 19. Millour, F.; Petrov, R.; Vannier, M.; **Kraus, S.**, *"AMBER closure and differential phases: accuracy and calibration with a beam commutation device"*, 2008, Proc. SPIE Vol. 7013, 70131G
 18. Weigelt, G.; Chesneau, O.; Driebe, T.; Foy, R.; Fraix-Burnet, D.; Groh, J.; Hofmann, K.-H.; **Kraus, S.**; Malbet, F.; Marconi, A.; Mathias, P.; Millour, F.; Monin, J.-L.; Petrov, R.; Rantakryö, F.; Richichi, A.; Schertl, D.; Schöller, M.; Stee, P.; Testi, L.; Wittkowski, M., *"VLTI-AMBER observations of Eta Carinae with the FINITO fringe tracker and spectral resolution 12000"*, 2008, Proc. SPIE Vol. 7013, 701303
 17. Cotton, W.; Monnier, J.; Baron, F.; Hofmann, K.-H.; **Kraus, S.**; Weigelt, G.; Rengaswamy, S.; Thiebaut, E.; Lawson, P.; Jaffe, W.; Hummel, C.; Pauls, T.; Schmitt, H.; Tuthill, P.; Young, J., *"The 2008 interferometry imaging beauty contest"*, 2008, Proc. SPIE Vol. 7013, 70131N
 16. Nielsen, K. E.; Weigelt, G.; Gull, T. R.; Corcoran, M. F.; Driebe, T.; Kraus, S.; Hamaguchi, K.; Hillier, D. J., *"The structure of the winds of Eta Carinae as seen by HST/STIS and VLTI/AMBER"*, 2008, Revista Mexicana Astronomia y Astrofisica, Vol. 33, 136-138

15. Preibisch, Th.; **Kraus, S.**; Ohnaka, K., "*The Innermost Circumstellar Environment of Massive Young Stellar Objects Revealed by Infrared Interferometry*", 2008, ASP Conference Series Vol. 387, 140-147
14. **Kraus, S.**; Preibisch, Th.; Ohnaka, K., "*The inner gaseous accretion disk around a Herbig Be star revealed by NIR/MIR spectro-interferometry*", 2007, Proceedings of the IAU, 3:337-344, Cambridge University Press
13. Weigelt, G.; Driebe, T.; Hofmann, K.-H.; **Kraus, S.**; Petrov R.; Schertl, D., "*AMBER/VLTI observations of η Carinae with high spatial resolution and spectral resolutions of $\lambda/\Delta\lambda = 1500$ and 12 000*", 2007, New Astronomy Reviews, Vol. 51, Issue 8-9, 724-729
12. Preibisch, Th.; Driebe, T.; **Kraus, S.**; Lachaume, R.; van Boekel, R.; Weigelt, G., "*VLTI MIDI observations of the Herbig Ae star HR 5999*", ESO Workshop: "The power of optical/IR interferometry: recent scientific results and 2nd generation VLTI instrumentation", 2007, Springer-Verlag, "ESO Astrophysics Symposia", 249-253
11. Petrov, R. G.; Millour, F.; Chesneau, O.; Weigelt, G.; Bonneau, D.; Stee, Ph.; **Kraus, S.**; Mourard, D.; Meilland, A.; Vannier, M.; Malbet, F.; Lisi, F.; Antonelli, P.; Kern, P.; Beckmann, U.; Lagarde, S.; Perraut, K.; Gennari, S.; Lecoarer, T.; Driebe, Th.; Accardo, M.; Robbe-Dubois, S.; Ohnaka, K.; Busoni, S.; Roussel, A.; Zins, G.; Behrend, J.; Ferruzi, D.; Bresson, Y.; Duvert, G.; Nussbaum, E.; Marconi, A.; Feautrier, Ph.; Dugué, M.; Chelli, A.; Tatulli, E.; Heininger, M.; Delboulbe, A.; Bonhomme, S.; Schertl, D.; Testi, L.; Mathias, Ph.; Monin, J.-L.; Gluck, L.; Hofmann, K.-H.; Salinari, P.; Puget, P.; Clause, J.-M.; Fraix-Burnet, D.; Foy, R; Isella, A., "*First AMBER/VLTI observations of hot massive stars*", ESO Workshop: "The power of optical/IR interferometry: recent scientific results and 2nd generation VLTI instrumentation", 2007, Springer-Verlag, "ESO Astrophys. Symposia", 153-161
10. Malbet, F.; Benisty, M.; de Wit, W. J.; **Kraus, S.**; Meilland, A.; Millour, F.; Tatulli, E.; Berger, J.-P.; Chesneau, O.; Hofmann, K.-H.; Isella, A.; Petrov, R.; Preibisch, Th.; Stee, P.; Testi, L.; Weigelt, G.: "*Disentangling the wind and the disk in the close surrounding of the young stellar object MWC297 with AMBER/VLTI*", ESO Workshop: "The power of optical/IR interferometry: recent scientific results and 2nd generation VLTI instrumentation", 2007, Springer-Verlag, "ESO Astrophysics Symposia", 255-262
9. Domiciano de Souza, A.; Driebe, T.; Chesneau, O.; Hofmann, K.-H.; **Kraus, S.**; Miroshnichenko, A.S.; Ohnaka, K.; Petrov, R.G.; Preibisch, Th.; Stee, P.; Weigelt, G., "*The vicinity of the galactic supergiant B[e] star CPD-57°2874 from near- and mid-IR long baseline spectro-interferometry with the VLTI (AMBER and MIDI)*", Workshop Proceedings on "Stars with the B[e] phenomenon", 2006, ASP Conference Series, Vol. 355, 155
8. Lawson, P. R.; Cotton, W.; Hummel, C.A.; Baron, F.; Young, J. S.; Meimon, S. C.; Le Besnerais, G.; Mugnier, L. M.; Ireland, M. J.; Monnier, J. D.; Thiebaut, E. M.; Zavala, R. T.; **Kraus, S.**; Hofmann, K.-H.; Weigelt, G.; Pott, J.; Sridharan, R.; Hope, D. A., "*Interferometry imaging beauty contest*", 2006, Proc. SPIE Vol. 6268, 62681U, 1-12
7. Lagarde, S.; Lopez, B.; Antonelli, P.; MATISSE consortium (**Kraus, S.**), "*MATISSE: a four beams combiner in the mid-infrared for the VLTI*", 2006, Proc. SPIE Vol. 6268, 62683M, 1-10
6. Lopez, B.; Wolf, S.; Lagarde, S.; MATISSE consortium (**Kraus, S.**), "*MATISSE: perspective of imaging in the mid-infrared at the VLTI*", 2006, Proc. SPIE Vol. 6268, 62680Z, 1-7
5. Weigelt, G.; Petrov, R.; Chesneau, O.; Davidson, K.; Domiciano de Souza, A.; Driebe, T.; Foy, R.; Fraix-Burnet, D.; Gull, T.; Hillier, J.; Hofmann, K.-H.; **Kraus, S.**; Malbet, F.; Marconi, A.; Mathias, P.; Monin, J.-L.; Millour, F.; Ohnaka, K.; Rantakyro, F.; Richichi, A.; Schertl, D.; Schöller, M.; Stee, P.; Testi, L.; Wittkowski, M., "*VLTI-AMBER observations of Eta Carinae with high spatial resolution and spectral resolutions of 1500 and 10000*", 2006, Proc. SPIE Vol. 6268, 62682S, 1-6
4. Hofmann, K.-H.; **Kraus, S.**; Lopez, B.; Weigelt, G.; Wolf, S., "*Aperture synthesis image reconstruction study for the mid-infrared VLTI imager MATISSE*", 2006, Proc. SPIE Vol. 6268, 62683I, 1-7

3. Benisty, M.; Berger, J.-P.; Chesneau, O.; Isella, A.; **Kraus, S.**; Malbet, F.; Meilland, A.; Petrov, R.; Stee, P.; Tatulli, E.; Testi, L.; Weigelt, G., "*VLT/AMBER resolves disk-outflow interaction region of the B1.5V star MWC297*", 2005, IAU Symposium 227
2. Traub, W. A.; Berger, J.-P.; Brewer, M.; Carleton, N. P.; Kern, P.; **Kraus, S.**; Lacasse, M. G.; McGonagle, W. H.; Millan-Gabet, R.; Monnier, J. D.; Pedretti, E.; Ragland, S.; Reich, R. K.; Schloerb, F. P.; Schuller, P.; Souccar, K.; Wallace, G.: "*IOTA: Recent Technology and Science*", 2004, Proc. SPIE Vol. 5491, 482
1. **Kraus, S.**; Schloerb, F.P.: "*Infrared imaging of Capella with the IOTA interferometer*", 2004, Proc. SPIE Vol. 5491, 56

D) Popular-Scientific Articles:

4. **Kraus, S.**, "*Einblick in die Entstehung eines massereichen Sterns*", *Sterne und Weltraum*, 11/2010, 22-24
3. **Kraus, S.**, "*Very Large Telescope Interferometer images young high-mass stars*", Sep. 2010, SPIE Newsroom
2. **Kraus, S.**; Weigelt, G.; Balega, Y.Y.; Docobo, J.A.; Hofmann, K.-H.; Preibisch, T.; Schertl, D.; Tamazian V.S.; Driebe, T.; Ohnaka, K.; Petrov, R.; Schöller, M.; Smith, M., "*Tracing the Dynamic Orbit of the Young, Massive High-Eccentricity Binary System θ^1 Orionis C*", 2009, *The Messenger*, ESO, 136, 44-47
1. Nardetto, N.; Kervella, P.; Barnes, T.; Bersier, D.; Fokin, A.; Fouque, P.; Gieren, W.; Gillet, D.; Groh, J.H.; **Kraus, S.**; Mathias, P.; Merand, A.; Millour, F.; Mourard, D.; Pietrzynski, G.; Queloz, D.; Stoekl, A.; Storm, J., "*From the Dynamics of Cepheids to the Milky Way Rotation, and the Calibration of the Distance Scale*", 2008, *The Messenger*, ESO, 134, 20-24