

# List of Publications

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## Prof. Stefan Kraus

### a) Articles in Refereed Journals:

118. **Kraus, S.**; Kreplin, A.; Young, A.K.; Bate, M.R.; Monnier, J.D.; Harries, T.J.; Avenhaus, H.; Kluska, J.; Laws, A.S.E.; Rich, E.A.; Willson, M.; Aarnio, A.N.; Adams, F.C.; Andrews, S.M.; Anugu, N.; Bae, J.; ten Brummelaar, T.; Calvet, N.; Cure, M.; Davies, C.L.; Ennis, J.; Espillat, C.; Gardner, T.; Hartmann, L.; Hinkley, S.; Labdon, A.; Lanthermann, C.; Le Bouquin, J.-B.; Schaefer, G.H.; Setterholm, B.R.; Wilner, D.; Zhu, Z.; "A triple star system with a misaligned and warped circumstellar disk shaped by disk tearing", *Science*, in press
117. Anugu, N.; LeBouquin, J.-B.; Monnier, J.D.; **Kraus, S.**; Setterholm, B.R.; Labdon, A.; Davies, C.L.; Lanthermann, C.; Gardner, T.; Ennis, J.; Johnson, K.J.C.; ten Brummelaar, T.; Schaefer, G.; Sturmman, J.; "MIRC-X: a highly-sensitive six telescope interferometric imager at the CHARA Array", *AJ*, in press
116. Chiavassa, A.; Kravchenko, K.; Millour, F.; Schaefer, G.; Schultheis, M.; Freytag, B.; Creevey, O.; Hocde, V.; Morand, F.; Ligi, R.; **Kraus, S.**; Monnier, J.D.; Mourard, D.; Nardetto, N.; Anugu, N.; Le Bouquin, J.-B.; Davies, C.L.; Ennis, J.; Gardner, T.; Labdon, A.; Lanthermann, C.; Setterholm, B.R.; ten Brummelaar, T.; "Optical interferometry and Gaia measurement uncertainties reveal the physics of asymptotic giant branch stars", 2020, *A&A* 640, A23
115. **Kraus, S.**; LeBouquin, J.-B.; Kreplin, A.; Davies, C.L.; Hone, E.; Monnier, J.D.; Gardner, T.; Kennedy, G.; Hinkley, S.; "Spin-orbit alignment of the  $\beta$  Pictoris planetary system", 2020, *ApJL* 897, L8
114. Davies, C.L.; **Kraus, S.**; Harries, T.J.; Monnier, J.D.; Kloppenborg, B.; Aarnio, A.; Baron, F.; Millan-Gabet, R.; Parks, R.; Pedretti, E.; Sturmman, J.; Sturmman, L.; ten Brummelaar, T.A.; Touhami, Y.; "The dust sublimation rim of the disk of RY Tau: evidence of direct stellar occultation by the disk atmosphere", *ApJ*, in press
113. Thomas, J.D.; Richardson, N.D.; Sana, H.; Eldridge, J.J.; Monnier, J.D.; Schaefer, G.H.; Moffat, A.F.J.; Williams, P.; Corcoran, M.F.; Stevens, I.R.; Weigelt, G.; Zainol, F.D.; Anugu, N.; Le Bouquin, J.-B.; ten Brummelaar, T.; Campos, F.; Couperus, A.; Davies, C.L.; Ennis, J.; Eversberg, T.; Garde, O.; Gardner, T.; Flo, J.G.; **Kraus, S.**; Labdon, A.; Lanthermann, C.; Leadbeater, R.; Lester, T.; Maki, C.; McBride, B.; Ribeiro, J.; Setterholm, B.; Stober, B.; Wood, M.; Zurmuehl, U.; "The orbit and stellar masses of the archetype colliding-wind binary WR140", *MNRAS*, submitted
112. Chiavassa, A.; Krachenko, K.; Millour, F.; Schaefer, G.; Schultheis, M.; Freytag, B.; Creevey, O.; Hocde, V.; Morand, F.; Ligi, R.; **Kraus, S.**; Monnier, J.D.; Mourard, D.; Nardetto, N.; Anugu, N.; Le Bouquin, J.-B.; Davies, C.L.; Ennis, J.; Gardner, T.; Labdon, A.; Lanthermann, C.; Setterholm, B.R.; ten Brummelaar, T.; "Optical Interferometry and Gaia measurement uncertainties to reveal the physics of Asymptotic Giant Branch stars", *A&A*, in press
111. **Kraus, S.**; Kreplin, A.; Bate, M.; Young, A.K.; Bate, M.R.; Monnier, J.D.; Harries, T.J.; Avenhaus, H.; Kluska, J.; Laws, A.S.E.; Rich, E.A.; Willson, M.; Aarnio, A.N.; Adams, F.C.; Andrews, S.M.; Anugu, N.; Bea, J.; ten Brummelaar, T.; Calvet, N.; Cure, M.; Davies, C.L.; Ennis, J.; Espillat, C.; Gardner, T.; Hartmann, L.; Hinkley, S.; Labdon, A.; Lanthermann, C.; Le Bouquin, J.-B.; Schaefer, G.H.; Setterhol, B.R.; Wilner, D.; Zhu, Z.; "Disk tearing in a young triple star system with misaligned disk/orbit planes", *Science*, under review (preprint at <http://www.skraus.eu/preprint/gwori.pdf>)
110. Kospal, A.; Szabo, Zs. M.; Abraham, P.; **Kraus, S.**; Takami, M.; Lucas, P.W.; Contreras Pena, C.; Udalski, A.; "V346 Nor: the post-outburst life of a peculiar young eruptive star", 2020, *ApJ* 889, 148
109. Kreplin, A.; **Kraus, S.**; Tambovtseva, L.; Grinin, V.; Hone, E.; "First NIR interferometrically resolved high order Brackett and forbidden Fe lines of a B[e] star: V921 Sco", 2020, *MNRAS* 492, 566
108. Laws, A.S.E.; Harries, T.J.; Setterholm, B.R.; Monnier, J.D.; Rich, E.A.; Aarnio, A.N.; Adams, F.C.; Andrews, S.; Bea, J.; Calvet, N.; Espillat, C.; Hartmann, L.; Hinkley, S.; Isella, A.; **Kraus, S.**; Wilner,

- D.; Zhu, Z.; "Irregular dust features around intermediate-mass young stars with GPI: signs of youth or misaligned disks?", 2020, ApJ 888, 7
107. Kluska, J.; Berger, J.-P.; Malbet, F.; Lazareff, B.; Benisty, M.; LeBouquin, J.-B.; Absil, O.; Baron, F.; Delboulbe, A.; Duvert, G.; Isella, A.; Jocou, L.; Juhasz, A.; **Kraus, S.**; Lachaume, R.; Menard, F.; Millan-Gabet, R.; Monnier, J.D.; Moulin, T.; Perraut, K.; Rochat, S.; Pinte, C.; Soulez, F.; Tallon, M.; Thi, W.-F.; Thiebaut, E.; Traub, W.; Zins, G.; "A family portrait of disk inner rims around Herbig Ae/Be stars", 2020, A&A 636, 116
106. Meyer, D.M.; Kreplin, A.; **Kraus, S.**; Vorobyov, E.I., Haemmerle, L., Eisloffel, J.; "On the ALMA observability of nascent massive multiple systems formed by gravitational instability", 2019, MNRAS 487, 4473
105. Labdon, A.; **Kraus, S.**; Davies, C.-L.; Kreplin, A.; Kluska, J.; Harries, T.J.; Monnier, J.D.; ten Brummelaar, T.; Baron, F.; Millan-Gabet, R.; Kloppenborg, B.; Eisner, J.; Sturmman, J.; Sturmman, L.; "The dust sublimation front of the highly inclined, low mass YSO SU Aurigae", 2019, A&A 627, A36
104. Lanthermann, C.; Anugu, N.; Le Bouquin, J.-B.; Monnier, J.D.; **Kraus, S.**; Perraut, K.; "Modeling the e-APD SAPHIRA/C-RED ONE camera at low flux level: An attempt of photon counting in the near-infrared with the MIRC-X interferometric combiner", 2019, A&A 625, A38
103. Koumpia, E.; Ababakr, K.M.; de Wit, W.J.; Oudmaijer, R.D.; Caratti o Garatti, A.; Boley, P.; Linz, H.; **Kraus, S.**; Vink, J.S., Le Bouquin, J.-B.; "Resolving the MYSO binaries PDS27 and PDS37 with VLT/PIONIER", 2019, A&A 623, L5
102. Birchall, E.; Ireland, M.J.; Federrath, C.; Monnier, J.D.; **Kraus, S.**; Willson, M.; Kraus, A.L.; Rizzuto, A.; Maddison, S.T.; Agnew, M.T.; "Tiny Grains Shining Bright in the Gaps of Herbig Ae Transitional Discs", 2019, MNRAS 486, 3721
101. Hone, E.; **Kraus, S.**; Davies, C.L.; Kreplin, A.; Monnier, J.D.; Baron, F.; Millan-Gabet, R.; Hofmann, K.-H.; Schertl, D.; Sturmman, J.; Sturmman, L.; ten Brummelaar, T.; Weigelt, G.; "A compact gaseous accretion disk in Keplerian rotation around MWC147", 2019, A&A, 623, A38
100. Monnier, J.D.; Harries, T.J.; Bae, J.; Setterholm, B.R.; Laws, A.; Aarnio, A.; Adams, F.C.; Andrews, S.; Calvet, N.; Espaillat, C.; Hartmann, L.; **Kraus, S.**; McClure, M.; Miller, C.; Oppenheimer, R.; Wilner, D.; Zhu, Z.; "Multiple spiral arms in the disk around the intermediate-mass binary HD34700A", 2019, ApJ 872, 122
99. Setterholm, B.; Monnier, J.D.; Davies, C.; Kreplin, A.; **Kraus, S.**; Baron, F.; Aarnio, A.; Berger, J.-P.; Calvet, N.; Cure, M.; Kanaan, S.; Kloppenborg, B.; Le Bouquin, J.-B.; Millan-Gabet, R.; Rubinstein, A.E.; Sitko, M.L.; Sturmman, J.; ten Brummelaar, T.A.; Touhami, Y.; "Probing the Inner Disk Emission of Herbig Ae Stars HD163296 and HD190073", 2018, ApJ 869, 164
98. Gallenne, A.; Kervella, P.; Evans, N.R.; Proffitt, C.; Monnier, J.D.; Merand, A.; Nelan, E.; Winston, E.; Pietrzynski, G.; Schaefer, G.; Gieren, W.; Anderson, R.I.; Borgniet, S.; **Kraus, S.**; Pilecki, B.; Taormina, M.; Graczyk, D.; Mowlavi, N.; Eyer, L.; "A geometrical 1% distance to the short-period Cepheid V1334 Cygni", 2018, ApJ 867, 121
97. Güdel, M.; Eibensteiner, C.; Dionatos, O.; Audard, M.; Forbrich, J.; **Kraus, S.**; Rab, Ch.; Schneider, Ch.; Skinner, S.; Vorobyov, E.; "ALMA detects a radial wind in DG Tau", 2018, A&A 620, L1
96. Davies, C.L.; **Kraus, S.**; Harries, T.J.; Kreplin, A.; Monnier, J.D.; Labdon, A.; Kloppenborg, B.; Acreman, D.M.; Baron, F.; Millan-Gabet, R.; Sturmman, J.; Sturmman, L.; ten Brummelaar, T.A.; "Simultaneous spectral energy distribution and near-infrared interferometry modelling of HD142666", 2018, ApJ 866, 23
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94. Long, Z.C.; Akiyama, E.; Sitko, M.; Fernandes, R.B.; Assani, K.; Grady, C.A.; Cure, M.; Dong, R.; Fukagawa, M.; Hasegawa, Y.; Hashimoto, J.; Henning, T.; Inutsuka, S.-I.; **Kraus, S.**; Kwon, J.; Lisse, C.M.; Liu, H.B.; Mayama, S.; Muto, T.; Nakagawa, T.; Takami, M.; Tamura, M.; Currie, T.;

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93. Kreplin, A.; Tambovtseva, L.; Grinin, V.; **Kraus, S.**; Weigelt, G.; Wang, Y.; "On the Br-gamma line emission of the Herbig Ae/Be star MWC120", 2018, MNRAS 476, 4520
92. Kluska, J.; **Kraus, S.**; Davies, C.L.; Harries, T.; Willson, M.; Monnier, J.D.; Aarnio, A.; Baron, F.; Millan-Gabet, R.; ten Brummelaar, T.; Che, X.; Hinkley, S.; Preibisch, T.; Sturmman, J.; Sturmman, L.; Touhami, Y.; "A Multi-Instrument and Multi-wavelength High Angular Resolution Study of MWC614: Quantum Heated Particles inside the Disk Cavity", 2018, ApJ 855, 44
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87. Reiter, M.; Calvet, N.; Thanathibodee, T.; **Kraus, S.**; Wilson Cauley, P.; Monnier, J.D.; Rubinstein, A.; "Linking signatures of accretion with magnetic field measurements – Line profiles are not significantly different in magnetic and non-magnetic Herbig Ae/Be stars", 2018, ApJ 852, 5
86. Davies, C.L.; Kreplin, A.; Kluska, J.; Hone, E; **Kraus, S.**; "Probing the origin of the UX Ori-type variability in the YSO binary CO Ori with VLTI/GRAVITY", 2018, MNRAS 474, 5406
85. Willson, M.; **Kraus, S.**; Kluska, J.; Monnier, J.D.; Cure, M.; Sitko, M.; Aarnio, A.; Ireland, M.; Rizzuto, A.; Hone, E.; Kreplin, A.; Andrews, S.; Calvet, N.; Espaillat, C.; Fukagawa, M.; Harries, T.J.; Hinkley, S.; Kanaan, S.; Muto, T.; Wilner, D.; "Imaging the disc rim and a moving close-in companion candidate in the pre-transitional disc of V1247 Orionis", 2018, A&A 621, 7
84. **Kraus, S.**; Kreplin, A.; Fukagawa, M.; Muto, T.; Sitko, M.L.; Young, A.; Bate, M.; Grady, C.; Harries, T.; Monnier, J.D.; Willson, M.; Wisniewski, J.; "Dust-trapping vortices and a potentially planet-triggered spiral wake in the pre-transitional disk of V1247 Orionis", 2017, ApJ 848, L11 [featured as ESO/ALMA Picture of the Week; featured in press releases by AAS Nova and University of Exeter; featured in a "Research Highlight" article in Nature Astronomy (Woods, 2017, Nature Astronomy 1, 818)]
83. Hone, E.; **Kraus, S.**; Kreplin, A.; Hofmann, K.-H.; Weigelt, G.; Harries, T.; Kluska, J.; "Gas dynamics in the inner few AU around the Herbig B[e] star MWC297 – Indications of a disk wind from kinematic modeling and velocity-resolved interferometric imaging", 2017 A&A 607, A17
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