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Protoplanetary disks and exoplanets in scattered light

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Publications

Chapter 2: Polarized scattered light from self-luminous exoplanets

Accepted for publication in Astronomy & Astrophysics

T. Stolker, M. Min, D. M. Stam, P. Mollière, C. Dominik, and L. B. F. M. Waters

Chapter 3: Scattered light mapping of protoplanetary disks

Astronomy & Astrophysics, 2016, Volume 596, A70

T. Stolker, C. Dominik, M. Min, A. Garufi, G. D. Mulders, and H. Avenhaus

Chapter 4: Shadows cast on the transition disk of HD 135344B

Astronomy & Astrophysics, 2016, Volume 595, A113

T. Stolker, C. Dominik, H. Avenhaus, M. Min, J. de Boer, C. Ginski, H. M. Schmid, A. Juhasz, A. Bazzon, L. B. F. M. Waters, A. Garufi, J.-C. Augereau, M. Benisty, A. Boccaletti, Th. Henning, M. Langlois, A.-L. Maire, F. Ménard, M. R. Meyer, C. Pinte, S. P. Quanz, C. Thalmann, J.-L. Beuzit, M. Carillet, A. Costille, K. Dohlen, M. Feldt, D. Gisler, D. Mouillet, A. Pavlov, D. Perret, C. Petit, J. Pragt, S. Rochat, R. Roelfsema, B. Salasnich, C. Soenke, and F. Wildi

— H.A. and J.d.B. produced the final reduction products.

Chapter 5: Variable dynamics in the inner disk of HD 135344B revealed with multi-epoch scattered light imaging

Submitted to The Astrophysical Journal

T. Stolker, M. Sitko, B. Lazareff, M. Benisty, C. Dominik, L. B. F. M. Waters, M. Min, S. Perez, J. Milli, A. Garufi, C. Ginski, S. Kraus, J.-P. Berger, H. Avenhaus, and J. de Boer

— M.S. reduced the REM photometry, B.L. was responsible for the model fitting of the PIONIER visibilities.

Chapter 6: Direct detection of scattered light gaps in the transitional disk around HD 97048 with VLT/SPHERE

Astronomy & Astrophysics, 2016, Volume 595, A112

C. Ginski, **T. Stolker**, P. Pinilla, C. Dominik, A. Boccaletti, J. de Boer, M. Benisty, B. Biller,

M. Feldt, A. Garufi, C. U. Keller, M. Kenworthy, A.-L. Maire, F. Ménard, D. Mesa, J. Milli, M. Min, C. Pinte, S. P. Quanz, R. van Boekel, M. Bonnefoy, G. Chauvin, S. Desidera, R. Gratton, J. H. V. Girard, M. Keppler, T. Kopytova, A.-M. Lagrange, M. Langlois, D. Rouan, and A. Vigan

— C.G. is the main author and responsible for the data reduction and ellipse fitting, T.S. provided the surface brightness and phase function measurements.

Chapter 7: Shadows and spirals in the protoplanetary disk

Astronomy & Astrophysics, 2017, Volume 597, A42

M. Benisty, **T. Stolker**, A. Pohl, J. de Boer, G. Lesur, C. Dominik, C. P. Dullemond, M. Langlois, M. Min, K. Wagner, Th. Henning, A. Juhasz, P. Pinilla, S. Facchini, D. Apai, R. van Boekel, A. Garufi, C. Ginski, F. Ménard, C. Pinte, S. P. Quanz, A. Zurlo, A. Boccaletti, M. Bonnefoy, J. L. Beuzit, G. Chauvin, M. Cudel, S. Desidera, M. Feldt, C. Fontanive, R. Gratton, M. Kasper, A.-M. Lagrange, H. Le Coroller, D. Mouillet, D. Mesa, E. Sissa, A. Vigan, J. Antichi, T. Buey, T. Fusco, D. Gisler, M. Llored, Y. Magnard, O. Moeller-Nilsson, J. Pragt, R. Roelfsema, J.-F. Sauvage, and F. Wildi

— M.B. is the main author, T.S. is responsible for the radiative transfer modeling, J.d.B. produced the final DPI reduction products, C.P.D. and A.P. provided the 1D model.

Testing giant planet formation in the transitional disk of SAO 206462 using deep VLT/SPHERE imaging

Astronomy & Astrophysics, 2017, Volume 601, A134

A.-L. Maire, **T. Stolker**, S. Messina, A. Müller, B. A. Biller, T. Currie, C. Dominik, C. A. Grady, A. Boccaletti, M. Bonnefoy, G. Chauvin, R. Galicher, M. Millward, A. Pohl, W. Brandner, Th. Henning, A.-M. Lagrange, M. Langlois, M. R. Meyer, S. P. Quanz, A. Vigan, A. Zurlo, R. van Boekel, E. Buenzli, S. Desidera, M. Feldt, C. Ginski, R. Gratton, J. Lannier, D. Mesa, S. Peretti, C. Perrot, G. Salter, M. Samland, E. Sissa, C. Thalmann, and S. Udry

A 'Rosetta Stone' for protoplanetary disks: The synergy of multi-wavelength observations

Publications of the Astronomical Society of Australia, 2016, Volume 33, 59

A. Sicilia-Aguilar, A. Banzatti, A. Carmona, **T. Stolker**, M. Kama, I. Mendigutía, A. Garufi, K. Flaherty, N. van der Marel, and J. Greaves

Probing inner and outer disk geometries using shadows in transitional disks

Accepted for publication in Astronomy & Astrophysics

M. Min, **T. Stolker**, C. Dominik, and M. Benisty

The SPHERE view of the planet-forming disk around HD 100546

Astronomy & Astrophysics, 2016, Volume 588, A8

A. Garufi, S. P. Quanz, H. M. Schmid, G. D. Mulders, H. Avenhaus, A. Boccaletti, C. Ginski,

M. Langlois, **T. Stolker**, J.-C. Augereau, M. Benisty, B. Lopez, C. Dominik, R. Gratton, Th. Henning, M. Janson, F. Ménard, M. R. Meyer, C. Pinte, E. Sissa, A. Vigan, A. Zurlo, A. Bazzon, E. Buenzli, M. Bonnefoy, W. Brandner, G. Chauvin, A. Cheetham, M. Cudel, S. Desidera, M. Feldt, R. Galicher, M. Kasper, A.-M. Lagrange, J. Lannier, A. L. Maire, D. Mesa, D. Mouillet, S. Peretti, C. Perrot, G. Salter, and F. Wildi

Exploring dust around HD 142527 down to $0''.025/4$ au using SPHERE/ZIMPOL

The Astronomical Journal, 2017, Volume 154, 33

H. Avenhaus, S. P. Quanz, H. M. Schmid, C. Dominik, **T. Stolker**, C. Ginski, J. de Boer, J. Szulágyi, A. Garufi, A. Zurlo, J. Hagelberg, M. Benisty, Th. Henning, F. Ménard, M. R. Meyer, A. Baruffolo, A. Bazzon, J. L. Beuzit, A. Costille, K. Dohlen, J. H. Girard, D. Gisler, M. Kasper, D. Mouillet, J. Pragt, and R. Roelfsema

The evolution of protoplanetary disks from their taxonomy in scattered light: Group I vs Group II

Astronomy & Astrophysics, 2017, Volume 603, A21

A. Garufi, G. Meeus, M. Benisty, S. P. Quanz, A. Banzatti, M. Kama, H. Canovas, C. Eiroa, H. M. Schmid, **T. Stolker**, A. Pohl, E. Rigliaco, F. Ménard, M. R. Meyer, R. van Boekel, and C. Dominik

New constraints on the disk characteristics and companion candidates around T Cha with VLT/SPHERE

Accepted for publication in Astronomy & Astrophysics

A. Pohl, E. Sissa, M. Langlois, A. Müller, C. Ginski, R. G. van Holstein, A. Vigan, D. Mesa, A.-L. Maire, Th. Henning, R. Gratton, J. Olofsson, R. van Boekel, M. Benisty, B. Biller, A. Boccaletti, G. Chauvin, S. Daemgen, J. de Boer, S. Desidera, C. Dominik, A. Garufi, M. Janson, Q. Kral, F. Ménard, C. Pinte, **T. Stolker**, J. Szulágyi, A. Zurlo, M. Bonnefoy, A. Cheetham, M. Cudel, M. Feldt, M. Kasper, A.-M. Lagrange, C. Perrot, and F. Wildi