

# Publications of the Infrared-Astronomy Group

## Max Planck Institute for Radio Astronomy

### 1975-1979

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**1979**

*Bialetzki, J., Lohmann, A.W., Weigelt, G.:* "Astro-speckle interferometry with multiple mirror telescopes", *Optik*, **53** (1979), 323

*Ebersberger, J., Weigelt, G.:* Speckle interferometry and speckle holography with the 1.5m and 3.6m ESO telescope, *ESO-Messungen No. 18* (1979), 24

*Lohmann, A.W., Weigelt, G.:* "Astronomical speckle interferometry; measurements of isoplanicity and of temporal correlation", *Optik*, **53** (1979), 167

*Weigelt, G.:* High resolution astro-photography: new isoplanicity measurements and speckle holography applications, *Optica Acta*, **26** (1979), 1351

*Weigelt, G.:* Restoration of images degraded by the atmosphere or telescope aberrations, *Conf. Proc. of the International Workshop on Image Processing in Astronomy, Trieste 1979*, p.422 (1979)

*Weigelt, G.:* Speckle interferometry and image reconstruction, *Proceedings of the IAU Coll. No. 50, Maryland USA 1978* (1979)

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*Lohmann, A.W., Weigelt, G.:* Image reconstruction from astronomical speckle interferograms, *Optical Telescopes of the Future. Conf. Proc. Dec. 1977, Geneva 23: ESO c/o CERN 1978*

*Weigelt, G.:* Astronomical speckle interferometry and speckle holography, in "OPTIKA HOY Y MANANA", *Proc. ICO-XI, J. Bescos et al., eds., Madrid 1978*, p.551

*Weigelt, G.:* "Measurement of motion paths", chapter 7 in *Speckle Metrology* (editor R.U. Erf), Academic Press 1978

*Weigelt, G.:* Speckle interferometry measurements of 12 binary stars, *Astronomy and Astrophysics*, **68** (1978), L5

*Weigelt, G.:* Speckle interferometry with a 1m-telescope, *Astronomy and Astrophysics*, **67** (1978), L11

*Weigelt, G.:* Speckle holography measurements of the stars Zeta Cancri & ADS 3358, *Applied Optics*, **17**, 2660

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*Lohmann, A.W., Reinecke, M., Ruder, H., Weigelt, G.:* Speckle-Interferometrie. II. Ergebnisse und Möglichkeiten, *Sterne und Weltraum*, **16** (1977), 284

*Weigelt, G.:* Modified astronomical speckle interferometry, speckle masking, *Optics Comm.*, **21** (1977), 55

*Weigelt, G., B. Stoffregen:* "The longitudinal correlation of a three-dimensional speckle intensity distribution", *Optik*, **48** (1977), 399

## 1976

*Lohmann, A.W., Weigelt, G.:* The measurement of depth motion by speckle photography, *Optics Comm.*, **17** (1976), 47

*Lohmann, A.W., Weigelt, G.:* Speckle methods for the display of motion paths, *J. Opt. Soc. Am.*, **66** (1976), 1271

*Weigelt, G.:* Real time measurement of the motion of a rough object by correlation of speckle patterns, *Optics Comm.*, **19** (1976), 223

## 1975

*Lohmann, A.W., Weigelt, G.:* The measurement of motion trajectories by speckle photography, *Optics Comm.*, **14** (1975), 252

*Weigelt, G.:* Large field speckle interferometry, *Optik*, **43** (1975), 111

*Weigelt, G.:* Extended Speckle interferometry, In: *Optical observation programs concerning galactic structure and dynamics. Meeting in Bochum, West Germany from February 19-21, 1975.* p.173-176 (1975)