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Seminar über Fragen der Mechanik

zu folgendem Vortrag wird herzlich eingeladen

Donnerstag, 26.09.2013, 15:00 Uhr, Haberstr. 1, Raum 01.025

An automated data reduction pipeline for the
Hartebeesthoek Radio Astronomy Observatory

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The Hartebeesthoek 26m Radio Astronomy Observatory collaborates with several Very Long Baseline Interferometry (VLBI) networks, the technical frontier of today's radio astronomy science. For calibration reasons, it also undertakes scans on sources of the southern sky independently for over one decade.

In my work, I developed an automated software pipeline which is able to reduce large amounts of such single-dish observation data sets and to extract the physical parameters of the observed sources. In this talk I will briefly give an overview about the principles of single-dish radio astronomy, the technical characteristics of the 26m Hartebeesthoek telescope in particular and the resulting problems of the analysis process. Finally, I will summarize the software structure and its features.

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