

WPCF 2023 - XVI Workshop on Particle Correlations and Femtoscopy & IV Resonance Workshop 2023



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Type: **Invited**

Stellar Intensity Interferometry at H.E.S.S.

Tuesday, 7 November 2023 09:30 (25 minutes)

Stellar Intensity Interferometry (SII), originally developed by Hanbury Brown & Twiss in the late 1950s, enables high angular resolution astronomical observations in the optical band. By measuring and correlating the photon streams of at least two telescopes with varying baselines, the technique becomes almost insensitive to atmospheric effects. Since Imaging Atmospheric Cherenkov Telescopes have very large light collecting areas they are the ideal candidates for Intensity Interferometers. Our II setups were designed for the Phase I H.E.S.S. telescopes in Namibia. Two measurement campaigns, in 2022 and 2023, have already taken place in Namibia. In this contribution we give a brief introduction into the method, present our technical setup and the results we have gathered so far.

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Session Classification: Day 2 - Morning