RUHR-UNIVERSITÄT BOCHUM
FAKULTÄT FÜR PHYSIK UND ASTRONOMIE

RUB

PHYSIKALISCHES KOLLOQUIUM

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Probing galaxy formation and evolution with deep imaging and numerical simulations

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Cosmological models predict that today's galaxies were assembled through multiple collisions and mergers. These cosmic events have left various imprints in their surroundings, such as shells, streams, tails and extended stellar halos. Detecting and analyzing them, one may hence probe the past mass assembly of galaxies. However, collisional debris are very faint and difficult to identify. I will present deep optical imaging techniques able to reveal these low surface brightness structures, and the numerical simulations used to interpret them. The spectacular images we obtained at the Canada-France-Hawaii Telescope of a large sample of massive galaxies invite us to explore the yet poorly known Low Surface Brightness Universe.

Einführung: Priv. Doz. Dr. D. Bomans

Die Fakultät lädt alle Interessierten herzlich ein.