



Universidade Federal de Pernambuco
DEPARTAMENTO DE FÍSICA - PÓS-GRADUAÇÃO

Colóquio (WEBINAR)

Probing relativistic gravity with radio astronomy

Michael Kramer

University of Manchester / Max Planck-Institut fuer
Radioastronomie, Bonn

We experience a golden era in testing and exploring relativistic gravity. Whether it results from gravitational wave detectors, satellite or lab experiments, radio astronomy plays an important complementary role. Here one can mention the cosmic microwave background, black hole imaging and, obviously, binary pulsars. This talk will provide an overview how these methods relate to each other, and will in particular focus on new results from the study of binary pulsars, where we can test the behaviour of strongly self-gravitating bodies with unrivalled precision. The talk will also give a brief update on nHz gravitational wave detection with Pulsar Timing Arrays and an outlook of what we can expect from new experiments, such as MeerKAT or the SKA.

Shortbio:

1995 PhD at Bonn University
1998 Visiting Fellow at UC Berkeley
1999-2009 Lecturer, Senior Lecturer, Reader, Professor for Astrophysics at the University of Manchester
2009 - present Director at Max-Planck-Institut fuer Radioastronomie, Bonn (still, Professor in Manchester)

20 de maio de 2022 (sexta-feira) - 16 horas

Através do Google Meet:

<https://meet.google.com/qmc-wrjz-hhv>