NRAO/Socorro Colloquium Series

Oleg Smirnov

Rhodes College, South Africa

3C147 & Cyg A & friends: a South African perspective on high dynamic range imaing and the software ecosystem

Abstract:

I will give a brief update on current progress with MeerKAT construction and the SKA SA project in general. I will then discuss some recent results in high dynamic range imaging using JVLA data, in particular the 5M DR images of 3C147 (and preliminary 7M DR results with BnA observations). These were achieved by incorporating a primary beam model into the calibration pipeline, and combining that with differential gain calibration. I will also show some new (preliminary) S-band images of CygA from A+B+C configuration, discuss deconvolution challenges, and finish with a few words on the current state of our software ecosystem.

October 23, 2015

11:00 am

Array Operations Center Auditorium

All NRAO employees are invited to attend via video, available in Charlottesville Auditorium, Green Bank Auditorium, and VLA Video Conference Room.