

Walter Max-Moerbeck (NRAO Socorro)

What is the cause for the Quasi-Periodic Oscillations in the Blazar J1359+4011?

This project is concerned with the study of quasi-periodic oscillations (QPOs) in AGNs. QPOs have been well-studied in X-ray binaries but the situation in AGNs is less clear, in part due to the longer time scales involved. I will discuss the case of J1359+4011, in which a QPO with a period of 120-150 days has been persistently detected in 6 years of 15 GHz observations from the Owens Valley Radio Observatory blazar monitoring program. I will describe how recent multi-frequency and multi-epoch VLBA observations can help us test different scenarios producing this peculiar behavior.