Global 3-mm VLBI observations with the KVN toward bright AGN jets

Eduardo Ros²; <u>Shoko Koyama^{1,2}</u>; Thomas P. Krichbaum²; Taehyun Jung³; Alan Marscher⁴

¹Academia Sinica Institute of Astronomy and Astrophysics; ²Max Planck Institute for Radio Astronomy; ³Korea Astronomy & Space Science Institute; ⁴Boston University

Relativistic outflows in AGNs are considered to be powered by super-massive black holes. Recent mm-VLBI observations reveal in an increasing number of objects a misalignment of the jet position angles between innermost and outer jet regions. A combination of the 3 antennas of the Korean VLBI Network (KVN) with the Global 3-mm VLBI Array (GMVA) enhances the uv-coverage and imaging capabilities and extends the east-west resolution with baseline lengths of up to 9000 km. Here, we will report on 3-mm VLBI images of blazars 0716+714 and OJ 287, which were obtained in a GMVA plus KVN pilot experiments at 3-mm in May 2012 and Sep. 2013. We will also discuss about future prospects of 3-mm observations with GMVA & GLT.