

P148a The inventory of Nitrogen-bearing organics towards G+0.693-0.027

**Shaoshan Zeng (RIKEN)**, Izaskun Jiménez-Serra (CSIC-INTA), Victor M. Rivilla (CSIC-INTA),  
Lucas Rodríguez-Almeida (CSIC-INTA) et al.

Among over 250 molecules discovered in the ISM, nitrogen-bearing (N-bearing) species, in particular N-bearing complex organic molecules (COMs), are of interest as many likely play a crucial role in prebiotic chemistry and thus are essential ingredients for the emergence of life. With the most recent unbiased spectral survey towards the Galactic Centre molecular cloud G+0.693-0.027 using the Yebes 40m and the IRAM 30m telescopes, I will present the census of N-bearing COMs detected towards this source, including the first detection of vinylamine ( $C_2H_3NH_2$ ) and tentative detection of ethylamine ( $C_2H_5NH_2$ ) in the ISM. As increasing evidences have suggested that G+0.693-0.027 might be the pre-stellar precursor of a massive star-forming cluster in the Sgr B2 region, our results show that extremely rich and amazing chemical complexity can be triggered in early evolutionary stages of molecule clouds.