



Contribution ID: 118

Type: **Oral**

Unveiling the Magnetic Fields around Galactic Center

Tuesday, 30 August 2022 18:00 (15 minutes)

We present new magnetic field measurement around the Galactic Center regions, including the 20km/s cloud, 50 km/s cloud, Sgr A*, and the Brick. Our data are obtained through the James Clerk Maxwell Telescope (JCMT) B-Fields In Star-forming Region Observations (BISTRO) survey with the POL-2 instrument. We decouple the complicated velocity structure in the Galactic center regions to estimate the velocity dispersion needed for the magnetic field strength estimates with the Davis-Chandrasekhar–Fermi method. We analysis the energy budget and access the relative importance of the magnetic fields and the turbulence for star formation.

Primary authors: Mr YANG, Meng-Zhe (National Tsing Hua University); LAI, Shih-Ping (National Tsing Hua University)

Presenter: LAI, Shih-Ping (National Tsing Hua University)

Session Classification: Polarization and surveys, etc.