## Measurement of Linear Polarization in Venus Atmosphere (work in progress)

- scattering of sunlight by Venus mesosphere expected to produce some amount of linear polarization
- difficult to observe due to phase angle close to $180^{\circ}+$ instrument defects \& limb polarization
- during Venus transit side camera took I+/-U and I+/-Q in continuum, at cadence of 3.75 s (horizontal linear polarization seen from the instrument is $I+Q$, while $I+U$ is polarization at $45^{\circ}$ counterclockwise from horizontal (Schou et al., 2012))


Venus observed during ingression outside solar disk.
Average aureole intensity measured.


Raw level 1 images
Background removed, cosmic ray hit removed

## Result of average linear polarization measurement



