

26.5 – 40 GHz ECE radiometer



- Due to low electron temperature and density, the ECE radiometer cannot be used for electron temperature measurements.

- The radiometer is sensitive to non-thermal high energy electrons
- Allows simulating radiation from plasma as a combination of single electron radiation.
- Matching model to experimental signal via variation of electron energy distribution function gives possibility to estimate the distribution function.

[Ivanov et al., 2023]



Ivanov, V., Varavin, M., Komm, M., Ficker, O., Tomesova, E., Svoboda, V., and J. Cerovsky (2023). Runaway electrons measurements by ece on the golem tokamak. volume July of *Europhysics conference abstracts*.