## Discussion on perspectives for ionospheric diagnostics E. Orru'

## Diagnostics

RAW GPS data-> Structure function

- •Unusual events in satellite data-> compare to LOFAR
- •Use LOFAR beamlet calibrator data (LBA) define figure of merit. – beamlet analysis + FOM from calibration parameters
- •Use the autocorrelation data to investigate scintillation physics
- •Use Ionospheric Dispatch Centre in Europe (IDCE) catalog for diagnostics
- compare good/bad data
- High res LOFAR data for GPS modeling
- Prediction: Use scintillation data to predict "bad" nights

## Others

## **Calibration:**

- Use high resolution TEC for calibration/phase screens
- High resolution correction of ionospheric RM
  Modeling:

Gain knowledge in modeling from ionospheric physicist community