## UHECR mass composition from arrival directions with the Telescope Array SD

- New method of UHECR composition study based on their arrival directions and energies measurement
- Key assumptions:
- Sources are numerous and located in LSS
- EGMF is not extreme: B < 1 nG,  $\lambda > 200 \text{ kpc}$
- TA SD data favors proton fraction increasing and iron fraction decreasing with energy from 10 EeV up to E = 100 EeV
- At E > 100 EeV data favors pure iron or even more deflected particles
- Results almost independent of GMF properties