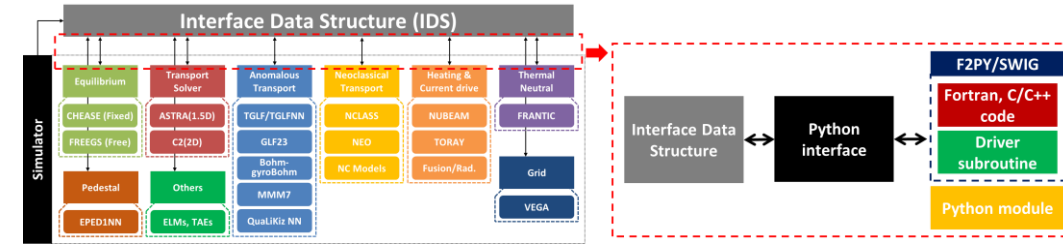# Summary slide - Development of Integrated Suite of Codes and Its Validation on KSTAR

C.Y. Lee et al.

- **Development of Integrated Suite of Codes**

- The integrated suite of codes written in Python has been developed for the analyses of tokamak plasmas.
- The interface data structure (IDS) used for its internal storage enabled fully modular approach with interchangeability.

- **Validation on KSTAR**

- For the validation on KSTAR, 50 stationary time slices from 30 different KSTAR discharges were prepared.
- The interpretive simulation showed that the plasma energy can accurately be calculated.
- The predictive simulation under constant gas puffing rate showed that the density and energy can be predicted accurately and consistently.