

INFN interests on Si-Tracker

D. Elia for the INFN groups

- **participating groups (contacts):** Bari (D. Elia), Trieste (G. Contin), Padova (R. Turrisi)
- **ongoing activities for ALICE ITS3:**
 - ✓ Bari: bending and interconnection studies, development of super-ALPIDE prototypes, test of APTS OP-AMP
 - ✓ Trieste: bending, test and characterization of flat and bent DPTS, preparation of bent APTS SF samples
 - ✓ Padova: test and characterization of APTS SF, setup for testing DPTS under preparation
 - ✓ Bari and Trieste coordinating the ITS3 - WP4 “Bending, thinning and interconnections” (D. Colella, G. Contin)
- **current involvement/activities in EICSC and tracking WG:**
 - ✓ contribution to the EICSC coordination (G. Contin and D. Elia)
 - ✓ eRD111 (since FY22): *Forming modules from stitched sensors* → 30 k\$ for FY23
 - ✓ eRD113: *Progress in testing and characterization* → 30 k\$ for FY23
 - ✓ gen. R&D: *Additive manufacturing of power&data redistribution layers on thin large-area silicon* → 49 k\$ for FY23
 - ✓ simulation studies with Fun4All/DD4HEP vs fast simulation, development of Root-based event display (S. Kumar)
- **area of interest for the ePIC Si-Tracker:**
 - ✓ **mainly focused on vertex layers:** based on bending/interconnection/prototyping activities for ITS3
 - ✓ general contribution on sensor test and characterization (also connected to the eRD111 targets for this year)
→ overall effort to be better defined based on effective dedicated man-power growing in the groups