







# JRA10 - SIDDHARTA

SIlicon Drift Detector for Hadronic Atom Research by Timing Applications





#### FastEM Calorimeters

JRA2: Fast compact EM calorimeters and high power lasers



JRA4: High speed gas detectors with integrated electronics





acquisition system



UNIVERSITY GLASGOW GPD

JRA5: Generalized parton



JRA12: Advanced TOF detection system





JRA6: High luminosity hypernuclear gamma-spectroscopy



JRA11: Novel Radiation Hard CVD-Diamond Detectors



JRA7: High luminosity internal targets for storage rings



JRA10: Silicon drift detectors for X-ray spectroscopy

Istituto Nazionale di finica Nucleare



#### Polarized Targets

JRA8: Polarized nucleon targets for Europe

#### RICH Detectors

JRA9: Ring imaging Cherenkov counters Issituto Nazionale for particle identification

## The objective of SIDDHARTA

SIlicon Drift Detector for Hadronic Atom Research by Timing Applications

- be develop an apparatus for soft X-ray detection
- based on large area Silicon Drift Detectors (SDD)
- with high background rejection capability by triggered application

### **Deliverables**

design and production of a detector with about 200 cm<sup>2</sup> active area exotic atoms transition research