

KIT TA Status

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INSTITUT FÜR EXPERIMENTELLE KERNPHYSIK



The infrastructure

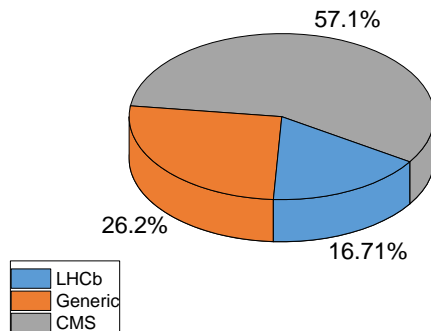
- Description on http://www.ekp.kit.edu/english/irradiation_center.php
- Cyclotron parameters:
 - Proton Energy ~23 MeV (25.3MeV at extraction)
 - Proton Current ~2.0 μ A (100nA - 20 μ A)
 - Max. Object Width 44cm
 - Max. Object Height 17cm
 - N₂-Cooling Temperature -30°C
- On average 4-5h slot every second week
 - up to 6 weeks turn-around time
- E.g., irradiating one sensor of 20mm x 20mm to 5x10¹⁵n_{1MeV}/cm² takes about 90 minutes.
- Min. quantity of access to be provided: 100h beam time
- Samples can be shipped to us, we irradiated and send them back
 - No visitors expected!
- Initial contact and infos: irradiations@lists.kit.edu

Projects so far

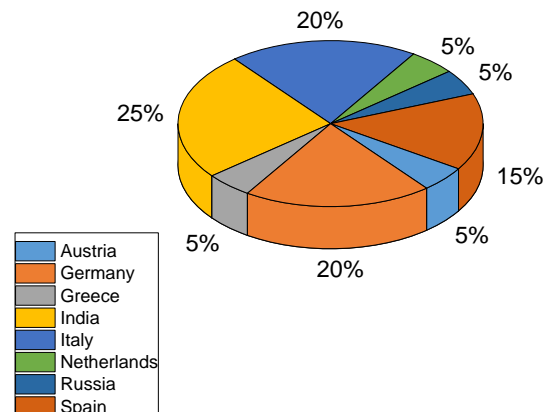
Project	Title	Experiment	Access / h
AIDA-2020-KIT-2015-01	LHCb VELO upgrade	LHCb	2.13
AIDA-2020-KIT-2015-02	Irradiation of a LPNHE/FBK active edge pixel module	Generic	0.42
AIDA-2020-KIT-2015-03	Radiation-hard Si sensors development at India for the CMS Experiment	CMS	2.62
AIDA-2020-KIT-2015-04	Irradiation study of the CMS upgrade pixel detector readout chip	CMS	4.66
AIDA-2020-KIT-2015-05	Embedded Pitch Adapters	Generic	2.92
AIDA-2020-KIT-2016-01	High voltage sensor contacts in high radiation environment	ATLAS	

Total: 12.75h

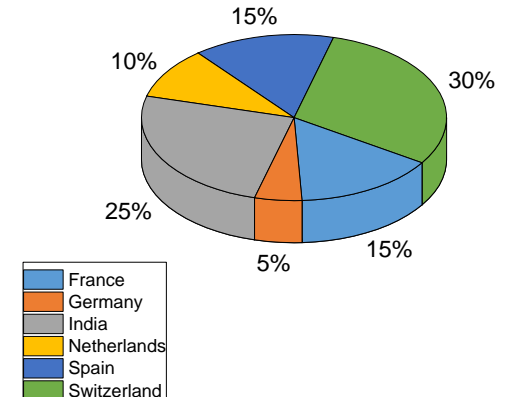
Access distribution



Users nationality



User institute's country



Publicity

- Dedicated web page
- Link to AIDA TA on RD50 web page
- Presentation at the 4th Beam Telescopes and Test Beams Workshop 2016 (3.2.2016, Orsay) with 60 participants
- TA video shooting done on June, 1st
- Personal reminders to previous customers