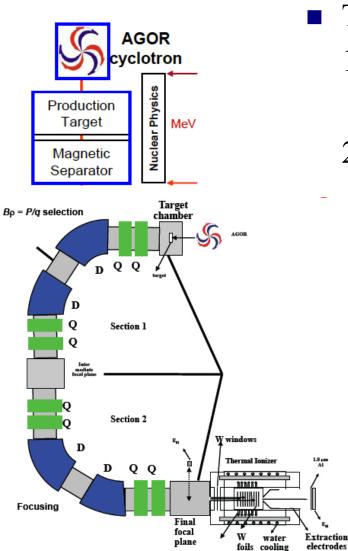
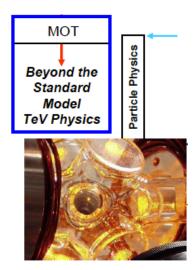
Report from KVI – PAC issues

R.Calabrese University and INFN - Ferrara

Research at KVI



- The research at KVI focuses mainly on
 - 1) fundamental forces and symmetries in physics
 - 2) applications of the technology and methods developed for fundamental research (in particular biology and medical applications)



Types of submitted proposals (2011-2012)

- Experiments to study fundamental interactions and symmetries at low q²(TRIμP facility), 4 proposals:
 - -trapping and cooling of ions, atoms, and molecules. In particular search for violation of parity and time reversal symmetry and for violation of Lorentz invariance.
 - -high quality of proposals
 - -complementary to particle physics research (high q²) to search for new physics beyond the Standard Model

Types of submitted proposals (2011-2012)

- Experiments in nuclear (astro)physics, 2 + 1 proposals
 -high quality of proposals, use of existing facilities (e.g. BBS spectrometer), collaborations with strong European groups.
- Experiments to study biomedical physics, in particular in the field of particle therapy, **4** + **1** proposals
 - -strong collaboration with the University (Clinics)
 - -high quality of the medical physics proposals, which include very innovative approaches and collaborations with strong European groups.
 - -specific commitment of the KVI Directorate to invest in biomedical applications, a decision that the PAC fully endorse and encourage.

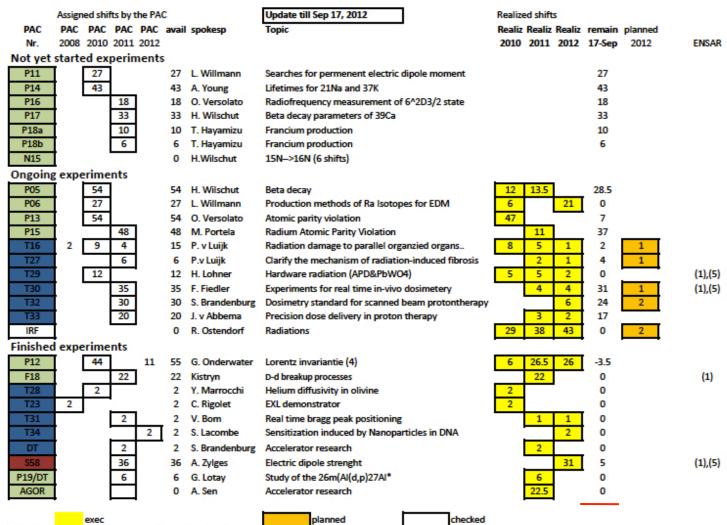
Criteria for approval

- Excellence is the sole criterion for approval
- After the submission, two referees are assigned to every proposal. Each proposed experiment has to be presented at the PAC meeting. Approval of experiments, ranking and assignment of the number of shifts are made by consensus without voting.

Present PAC composition

- Juha Äystö (JYFL Jyväskylä)
- Roberto Calabrese (Ferrara Univ. and INFN) Chair
- Marco Durante (GSI Darmstadt)
- Oscar Naviliat-Cuncic (MSU)

Overview of the used beam time



ENSAR (1)' ENSAR supported 31 shifts in 2011, remains 69 shifts.

ENSAR (5) ENSAR supported 37 shifts in 2012, remains 32 shifts.

292.5 shifts to be done

^{(4) 11} shifts in 2012 is requested beamtime tagged as directors time.