

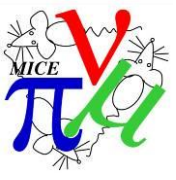


WELCOME TO MICE CM32!

- Goals and Status -

**Many thanks to Victoria Blackmore, Stefania Ricciardi and Mary-Elizabeth Shewry
for taking care of logistics and preparing the agenda!**

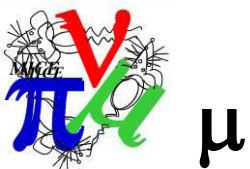
to Alan Bross for preparing the wrap up!



Aim : review where we stand with progress

1. Schedule

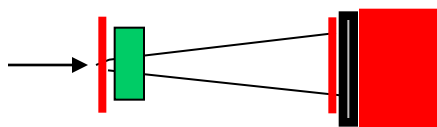
2. Actions



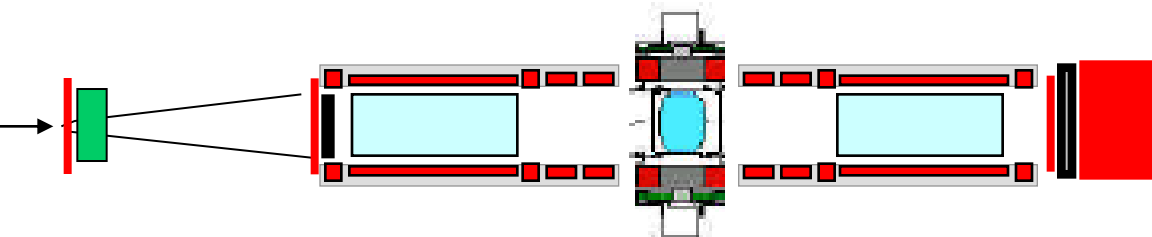
MICE SCHEDULE
update October 2011 V1

Run date:

EMR run Q2 2012

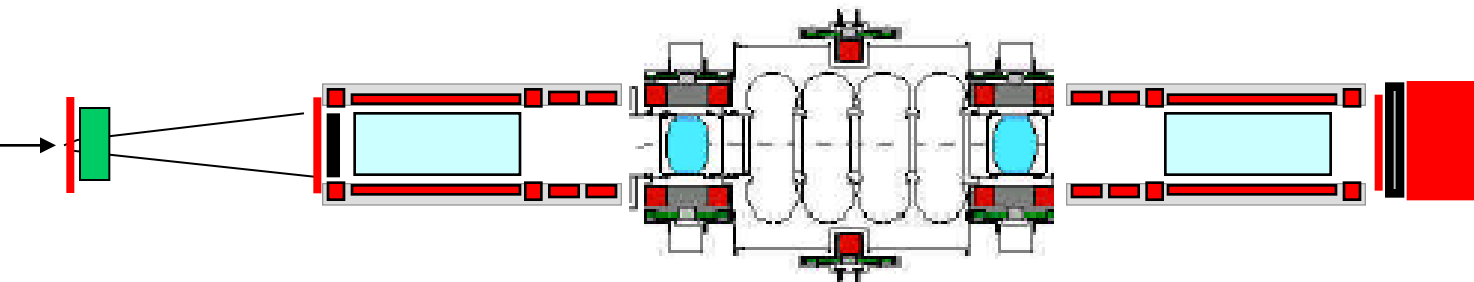


STEP I

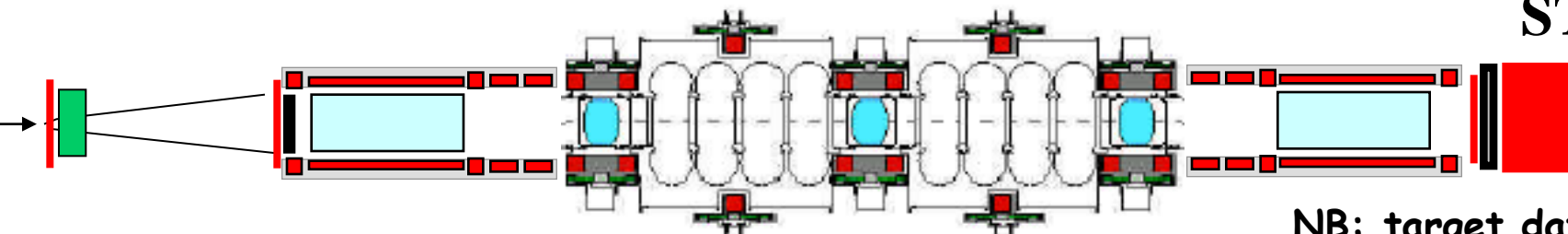


STEP IV Q4 2012
and 2013

Under construction:

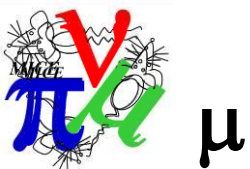


STEP V



STEP VI

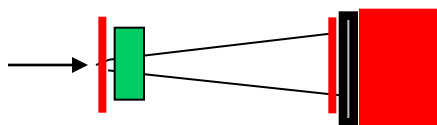
NB: target date 2016



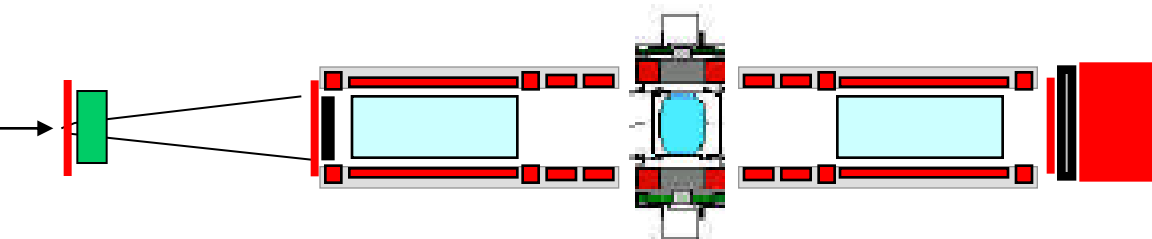
MICE SCHEDULE update October 2011 V1

Run date:

EMR run Q2 2012

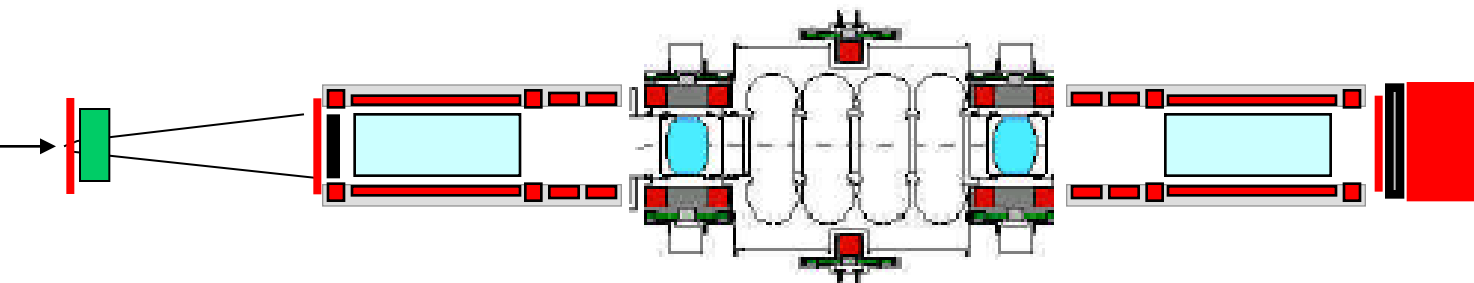


STEP I

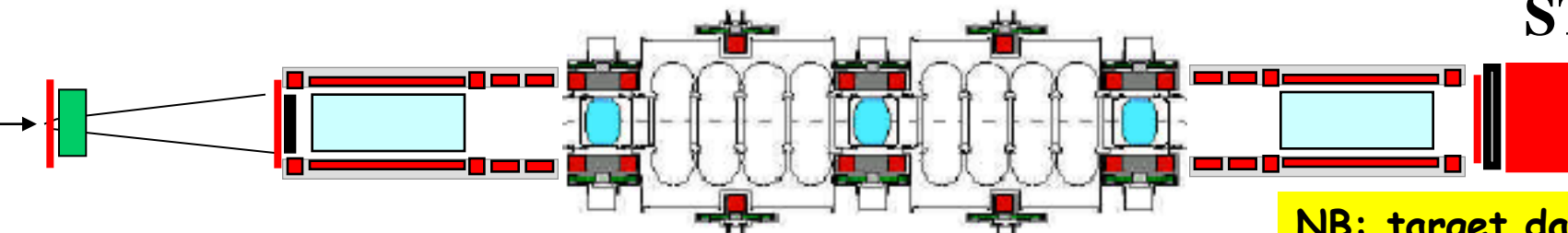


STEP IV Q4 2012
and 2013

Under construction:



STEP V



STEP VI

NB: target date 2016

screen preview FOR NEXT MEETING (not exhaustive list)

Spectrometer solenoid cold mass is closed and about to be testing.

FC magnet completed (cooled) and in time for delivery end of February

CC drawings review passed. First scenarios for construction of CC magnets

LH2 system tested with Liquid Hydrogen

Results from December run:

- is CKOV telling pi/mu reliably at 300 MeV/c?
- is MAUS working on real data?

Analysis group producing results, tracker reconstruction software

Report from Magnetic shielding WG and reference time WG

Establish run plan for step IV!



Some recommendations by MPB in July 2011:

Recommendations

*(MICE is asked to report at the next MPB meeting **8 March 2012** on these)*

- Engage Chinese manufacturing partners during CC magnet testing and cryostat construction in the US
- Monitor 2011 Milestones and report to the next project board on their follow up and achievement
- Encourage project to evaluate more thoroughly step IV running
- Continue to recommend priority to be given to RF cavity tests well before commissioning step V to reduce project risks
- Recommend early soak test of RF power sources
- Recommend incorporating enough instrumentation to minimize occurrence and consequences of system-wide quench

NB we don't have to do everything they say, but we have to take it seriously and report on it.

Dan Kaplan has kindly agreed to help in editing the report



Goals of the meeting

1. Review activities and progress of MICE

- Operations (MOM, new Target, magnetic measurements)
- construction (MICE hall, LH2, Spectrometer Solenoids, Focus Coils, Coupling coils, EMR... eventually RF)
- publications (Status of our papers!)
- understanding of the physics of the experiment (Analysis session)
- Software development

LOOKING FORWARD TO HEAR THE NEWS!

2. Planning for data taking

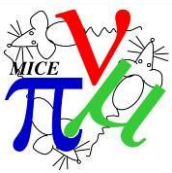
Are we ready?

- March 2012 Short run for DAQ/software (Rogers)
- May 2012 run: EMR (in step IV location) + Tracker station (TOF1 loc)
- February 2013 start Step IV
very efficient count down work by Gail, Linda and Online group
for December run. **We had a clear idea of what we wanted to do!**

3. Planning for completion of MICE

- coupling coils, RFCC modules, RF power

4. Where are we standing w.r.t. goals voiced at CM31?



European Strategy for High Energy Physics will be revised in 2013

Timeline for Update of European Strategy

Open for Submissions on scientific issues 1 February 2012

Submissions closed for the Open Symposium 31 July 2012

All submissions will be made available to the speakers and the session-chairs of the Open Symposium.

Open Symposium (at Cracow) 10-12 September 2012

Submissions closed for being included in the Briefing Book to the Strategy Group 15 October 2012

Strategy Group meeting to draft Update of Strategy 21-26 January 2013

Finalizing Update of Strategy by CERN Council March 2013

Special Council Session to adopt Update of European Strategy in Brussels May/June 2013

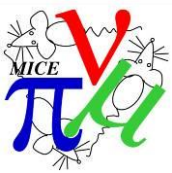


On the Neutrino Side:

1. There will be a European Neutrino Town meeting on 14-16 May 2012 at CERN to propose a coherent neutrino strategy
 - next step after CNGS
 - longer term view
2. Program Committee will write a draft statement to be discussed at that meeting (Ken, Vittorio and myself are part of this)
3. submissions from community by 26 March

MICE must be included as European Strategic project!

**It would be fitting that a group of young MICE would get together
To submit such a contribution**



Many news in neutrino physics over the last 9 Months!

1. Indications (2.5 and 1.7 sigma) of θ_{13} being non-zero, and probably large:
Dubbed « **groundbreaking-result-of-the-year** » 2011 by Physics World
 2. « Neutrino » is now known by everybody...
(but very unlikely to go faster than speed of light!)
 3. Many versions of Neutrino Factory with muons match incremental program
 - if θ_{13} is very large: **mini neutrino factory** to measure cross-sections
(store muons right out of prod. Target)
 - for intermediate values a Lower energy Neutrino factory
(still need the intensity!)
 4. Neutrino Factory remains most precise and only device able to test oscillations very precisely
 - precision measurements of angles and mass differences,
 - tau appearance and unitarity tests
 - detailed study of matter effects
 - etc...
- Physics is moving forward,
no time to waste, **Ionization cooling must be demonstrated**

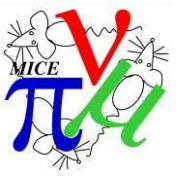


MICE HALL VISIT

Much progress in our HOME!

Friday Lunch Time

Please register on paper board!



LET'S HEAR THE NEWS!