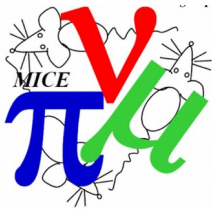


# **MAUS status**

P. Franchini

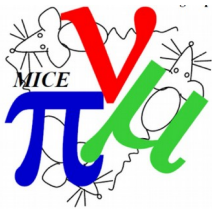
MICE CM 50  
1st<sup>st</sup> March 2018



# Current release

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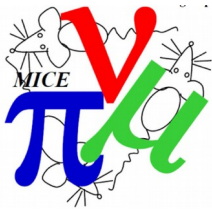
- Current release: MAUS-v3.1.2
- Documentation:  
<https://micewww.pp.rl.ac.uk/projects/maus/wiki>
- Reconstructed data (with globals):  
<http://reco.mice.rl.ac.uk>
- Download: <http://heplnv152.pp.rl.ac.uk/maus/>
- Issue tracker for problems (installation, bugs, ...)



# What has changed

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- Previous major release MAUS-v3.0.0
- Tracker: (Chris H.)
  - pattern recognition:
    - Fixes for the 50 MeV/c bump
    - Refitter for low Pt mis-reconstruction
- Globals: (Chris R.)
  - Fully implemented in MAUS and in reconstruction
- First version of the cuts structure (Misha)
- Reconstruction ready for the GRID (Durga)



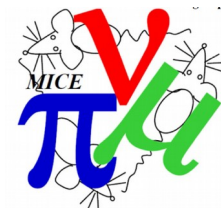
# Pending issues

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- Tracker
  - MINUIT mis-reconstruction at low Pt
- TOF
  - Source of the lower efficiency in TOF2 (several causes being investigated, release slab Dt cut)
  - Slab Dt offset in TOF2 (mostly outer slabs, calibration)
- Cuts structure v2
- Global track matching: quite demanding in term of computing resources

# MICA analysis framework

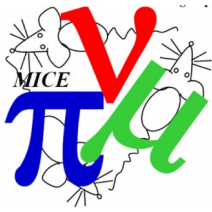
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- Adam Dobbs analysis package (in C++)
- Analysers already implemented
- Easy way to produce plots for new analysts
- Available on GitHub:

```
git clone https://github.com/ajdobbs/mica.git
```

- Future of it?



# Conclusion

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- First draft of the MAUS paper in progress
- Future release(s):
  - Track matching (*see Chris H. talk, later*)
  - TOF inefficiencies (*see Viktor talk, tomorrow*)
  - New cut data structure (*Ajit, in progress*)
  - Offline event viewer (*Mihailo, already in the trunk*)