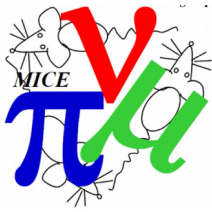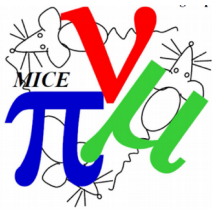# Software and Computing status

P. Franchini

MICE CM 52
October, 12 2018

Introduction

- Data analysis phase

  - Analysis software

  - Reconstruction

  - Simulation

- Computing resources reorganized

- All the analysis tools and resources are in place and fully functional
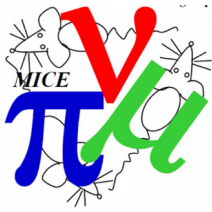
- See D. Maletic talk for the MC infrastructure

Infrastructure

- MLCR (nearly) unused for analysis

- Services moved to PPD

- **Web servers**:
    - MICEMine
    - CDB viewer
    - eLog (read only)
    - MAUS releases page
    - Reconstructed data index page
    - Jenkins: master and nodes
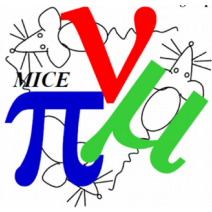
Infrastructure

- **Services**

    - storage area

    - CDB master and slave (in migration and backup to be moved too)

    - preprodCDB

    - Archiver data and ArchiveViewer

    - New bastion access to be finalized (migration to voyager w/ ssh keys...)
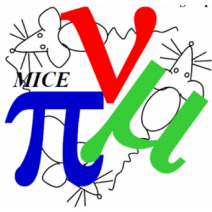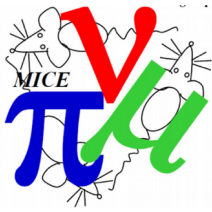
Infrastructure

- **IIT website**

    - Documents (notes, papers, thesis)

    - Mailing lists to be migrated to JISCMail

    - Photo album
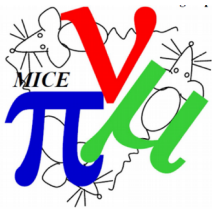
    → Create a mirror on PPD

MAUS

- Last release: 3.2.x

  - Main software used for the latest results presented to conferences and for future papers

  - Several custom "hackings" and tools that might be consolidated and integrated

- Next release:

  - Major work on the tracker reconstruction (C. Hunt)

  - Refitter mapper V2 (Francois)

  - Hybrid MC

  - Data cuts structure?

MAUS Geometry

- Fixed tracker glue, empty LH2 absorber and LiH structure (almost everywhere...)

- Diffuser structure may use some improvements

- Other missing apertures affecting high ε beams?

- Cooling channel field map in MAUS

Conclusion

- Infrastructure in place for data analysis

- All valuable data saved on the GRID

- Several tools to be integrated

- Geometry improvements