

Helmholtz Program: Matter and the Universe (MU)

PoF III Research Theme:

DESY Research Unit: "Experimental Particle Physics"

Elisabetta Gallo Center Evaluation DESY, 5 – 9 February 2018





Some general introduction

Here some general introduction

- If there will be some image/sketch for everybody, show where we are, add picture
- Stress that since DESY has joined ATLAS and CMS in 2006, they have acquired leading roles in detector operation
 and calibration, object reconstruction, physics analyses and upgrades (refer to Ingrid's talk). Covering several
 management and leading roles
- Stress the unique environment and close vicinity of ATLAS, CMS groups and theory. LHC discussion days each month on a particular topics
- Stress the role as **national hub**, numerous workshops, schools and meetings of the ATLAS and CMS communities here at DESY. Several international guest scientists attracted to work with us
- Unique role of DESY facilities (NAF, TIER-2) for data analysis (refer to Tier-2). Close vicinity to detectors from people performing analysis
- etc.

Then starts with physics results

Slides will be of this type, 1 plot ATLAS 1 plot CMS typically (plan to show also all 3 plots in POF)

Concentrate on physics:

- Slide 3: recall Run1, legacy Higgs plot, Run 2 luminosity
- Slide 4: Higgs physics
- Slide 5: SM ATLAS (Wmass, LbyL)
- Slide 6: Top and pdf at CMS
- Slide 7/8: Susy, searches and DM

Slide 9: Future

- Continue to address the most important topics in particle physics today along the 3 themes:
- Higgs/SM precision physics
- Searches for new physics
- Dark Matter searches







Conclusion

Style of slide will adapt to content

Slide 10: Conclusions

- Here a short conclusion on the physics results
- Shall I add some numbers here (like number of PhD theses, YIGs, ERCs, common appointments, etc.?, most important management positions in the experiments?)



