

# ASP2020 High School Teachers and Learners Programs

Ketevi Assamagan, David Biersach, Ken Cecire, Milind Diwan

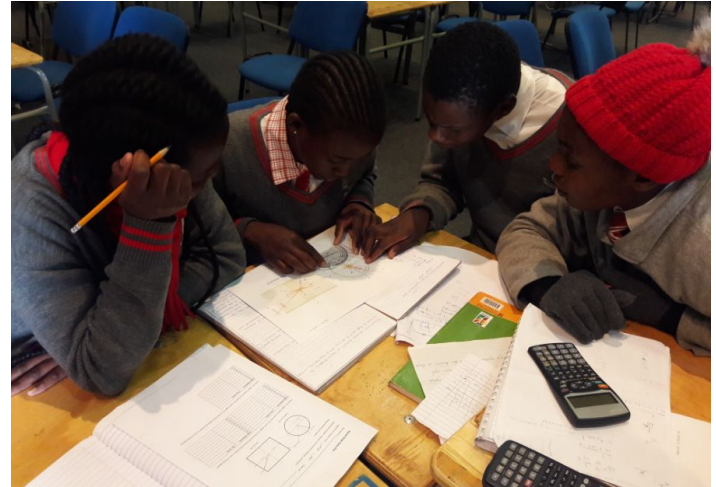
# Learners Program, July 13-17, 2020

ASP comes to Marrakesh high schools for ½-day sessions

- 2 sessions/day
- Up to 200 learners/session
- Up to 8 high school venues

Agenda similar to Learners Program 2018

- Particle Physics emphasis
- Active engagement; hands-on activities
- Cloud chamber and Cosmic Ray Detector
- Format also successful in U.S. outreach for QuarkNet/AAPT



# Learners Program - thinking about materials

Cartes des particules - 1 per 5-8 learners

Marbles, sticky notes

Printed matter TBD

Cloud chamber and cosmic ray detector for demo

# Teachers Program: July 20-24, 2020

4 part program:

- ACP 2020 relevant sessions
- ASP Forum
- Raspberry Pi Applications
- Particle Physics and ATLAS Masterclass



To meet all requirements, there are 3 one-hour evening sessions in addition to the all-day sessions M-F

# Teachers Program - thinking about materials (exclusive of Raspberry Pi program)

Computers w/internet - 1 per 2 teachers (can be R-pi?)

USB drives - 1 per teacher

Cartes des particules - 1 per teacher is OK, more is better

Marbles, sticky notes

Printed matter TBD

Cloud chamber and cosmic ray detector for demo