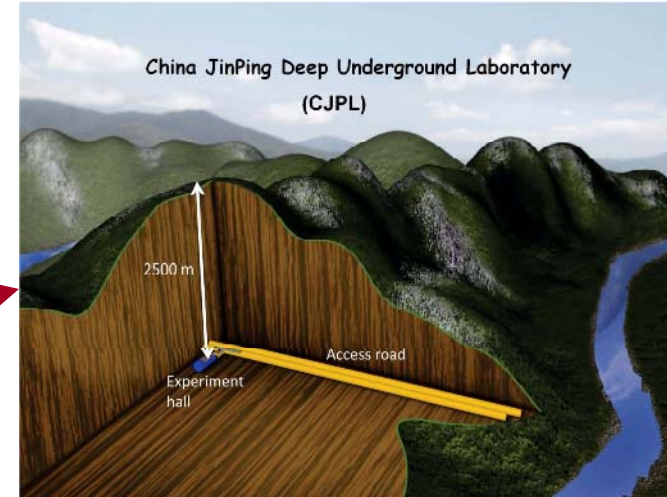




# PANDA X

(Particle AND Astrophysical Xenon TPC)

- A multi-stage liquid Xe based Dark Matter experiment at China JinPing Lab (location: Sichuan Province)
- Deepest dark matter facility, covered with 2,500m of marble
- PandaX-1: Time Projection Chamber (TPC) design optimized for low mass dark matter
- PandaX-2: increase the fiducial mass: optimized for large mass dark matter



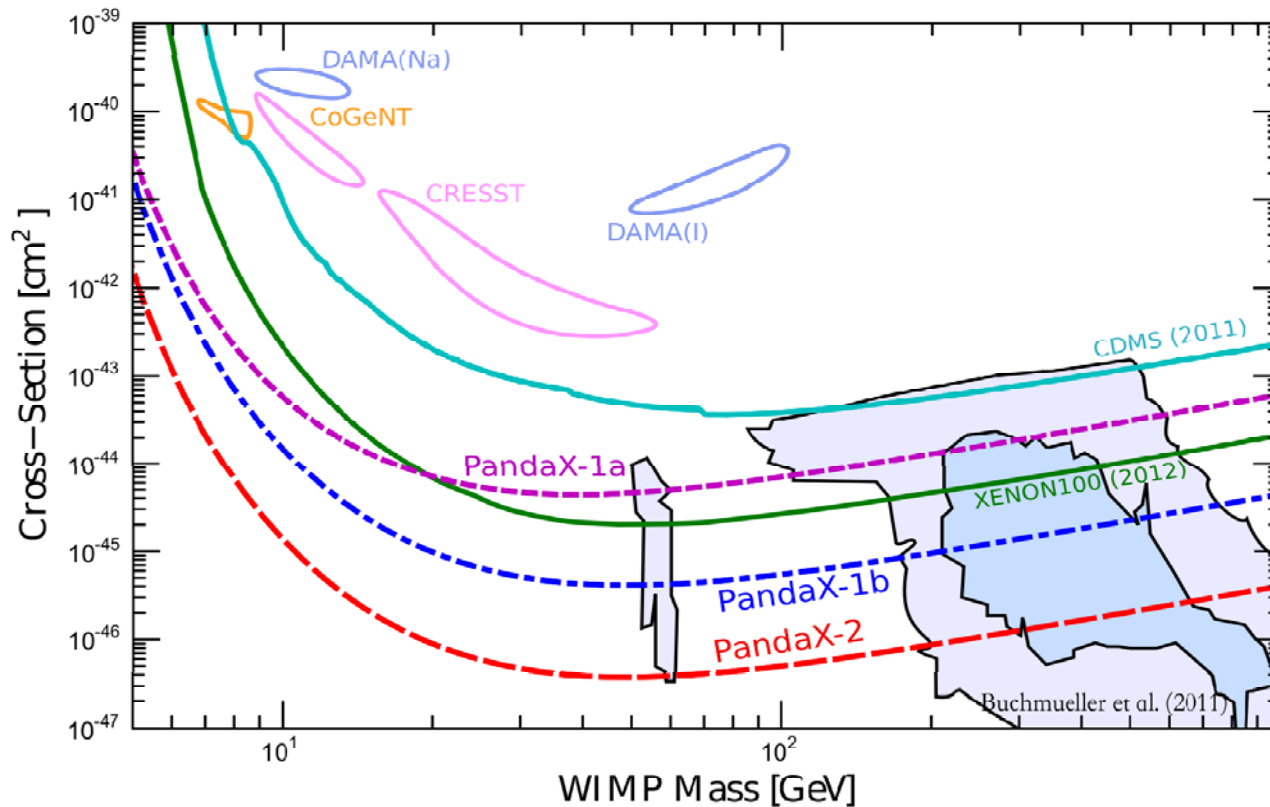
PandaX location at CJPL

PandaX-1a TPC





# PANDA X expected sensitivity



## PandaX-1a:

- exposure: 25 kg x 300 days
- start Nov 2012

## PandaX-2 (ton-scale):

- exposure: 1,200 kg x 600 days
- start 2015

PandaX-2: world's most sensitive Dark Matter search experiment



# PANDA X

December 2011 collaboration meeting



## Member institutions:

- Shanghai Jiao Tong University (SJTU)
- Shanghai Institute of Applied Physics
- Shandong University
- Peking University

- University of Michigan (U-M)

**MOU between U-M & SJTU signed  
in September 2011**