

# GRAND White Paper: Status + Future

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# White Paper: Current Status

- ▶ V1 status: Finished

- ▶ Already being circulated to colleagues, used to explore funding opportunities

- ▶ Lots of good content

- ▶ Too much theory background? (Still should be semi-self-contained)
- ▶ Too few details on the “design” part of “GRAND: Science and Design”?

- ▶ Still need to gear it for the public v2

# White Paper v2: Goals

WP v2 will be public

## What do we want to achieve with it?

- ▶ Make GRAND known to the whole astro-ph community
- ▶ Convince people that a very-large-scale air-shower observatory *is* necessary
- ▶ Attract funding: advertise a unique and solid science program
- ▶ People should take numbers and plots from the WP for their work, talks

**Longer run:** Use v2 as the basis of funding proposals

# Current to-do list for WP v2

- ▶ Change structure: present each science case followed by its prediction
  - ▶ Figure out how to introduce general items, like radio air-shower detection
  - ▶ Page length?
- ▶ Include results of improved simulations: UHE neutrinos, CRs, gamma rays
- ▶ Reduce content on radio emission in ice
- ▶ More balance between Auger and TA results
- ▶ Quote angular and energy resolution of primaries, not showers
- ▶ Clarify detection of cosmogenic  $\nu$  *vs.* made-on-site  $\nu$  from point sources
- ▶ Need: GRAND sensitivity to the EoR, FRBs, GPs
- ▶ Others: data preservation and sharing, outreach

# Discuss whether to include

- ▶ Potential construction sites
  - ▶ Probably will have to be different between GRANDProto35 and later stages
- ▶ Results from TREND, status of GRANDProto35
- ▶ Discussion of tests of frequency-band optimization (1712.09042)
- ▶ Structure of collaboration
- ▶ Status of funding
- ▶ Address the issue of logistics, deployment
- ▶ Budget: building cost, maintenance cost
- ▶ New money plots / stuff others can grab from the WP?