

# **Discussion on Installation and Commissioning**

**KAGRA F2Fmeeting**

**July 30, 2012**

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# **Installation and Commissioning**

- **Installation and commissioning phase should have an appropriate organization, which is usually different from that for the design phase**
- **Installation: should be optimized in procedure to complete the installation as soon as possible without any mistakes**
- **Commissioning: extremely important for GW detectors (very different from other detectors)**

# Our experience

- **We have some experience on TAMA300**
- **Construction and installation of the vacuum system: Ohashi and others**
- **Design/fabrication: Mio in charge**
- **Installation of the interferometer and commissioning: Kawamura managing, later Fujimoto-san managing; Ando, Telada, Nagano, Takahashi, Tatsumi, and others in charge of various systems**
- **However, KAGRA is much longer than TAMA300; much more sophisticated plan is required**

# References

- **We should learn from LIGO and Virgo (initial and advanced); We have started talking with them**
  - **aLIGO: Mike Landry (Installation)**  
**Peter Fritschel (commissioning)**
  - **AdV: TBD (Giovanni Losurdo)**
- **We also talked with Rana Adhikari, one of the key players for the iLIGO commissioning**
- **However, we should be aware that KAGRA has much smaller human resources than LIGO and Virgo**
- **We will also ask for KAGRA members' opinions**

# **Schedule and Procedure (not yet discussed in SEO)**

- **Summer 2012: Gathering information**
- **Fall 2012: Produce grand plan by discussion with subsystem groups and EO**
- **Winter 2012: Produce detailed plan by discussion with subsystem groups and EO**

**Free discussion?**