

WHERE DO WE GO FROM HERE?

- LIGO \Rightarrow Advanced LIGO
- TAMA \Rightarrow LCGT
- VIRGO \Rightarrow Upgrade
- GEO600 \Rightarrow GEO HF
- AURIGA)
- NAUTILUS) \Rightarrow Sphere, Dual?
- EXPLORER)

WHERE THEN? Research Issues

- Coating thermal noise – how to reduce?
 - Better materials?
 - Cooling?
 - Mesa-beams?
- Standard Quantum Limit
 - How much improvement from squeezing, QND schemes etc?
- Gravity Gradient
 - Underground detectors

The Future

- Heading to low temperature underground detector with non-classical illumination
- Where?
 - Japan upgrade of LCGT
 - Europe: third generation EGO detector
 - US: ‘super-LIGO’ – new site?
 - China?
 - Australia?
- When? 2015-20 ??
- Also LISA follow-on: Big Bang Observer

This and further Meetings

- Any additions/changes to program?
- Can we manage without Saturday morning session this year? YES but not to be a precedent
- Elba next year – programme? 27 May till June 2 2006
- Future meetings (including Elba)
 - Networking
 - Detector characterisation/commissioning
 - Squeezing and other sensitivity enhancing schemes
 - Some source talks
 - LISA and its follow-ons for one?