

AIC summary

- AdLIGO
 - sensing downselect
 - DC (homodyne) very probably better than RF both from technical (Mason, Mueller, Fritschel) and quantum limit (Buonanno, Chen, Mavalvala) points of view
 - R&D program
 - progress approximately to schedule (benchtops – papers published, Glasgow, Caltech 40m)
 - no show stoppers, optional minor changes to the baseline design to avoid needing VHF detection

AIC summary

- LIGO III
 - QND schemes becoming more practical
 - Sagnacs as speedmeters (Yanbei Chen)
 - loss tolerant - simple configuration
 - exploring more complex schemes too
 - intracavity schemes
 - require experimental program soon
 - plan substantial meeting at Hannover
 - White light cavities to reduce hf noise
 - negative dispersion without (much) loss
 - do we believe it?
 - quantum analysis required?