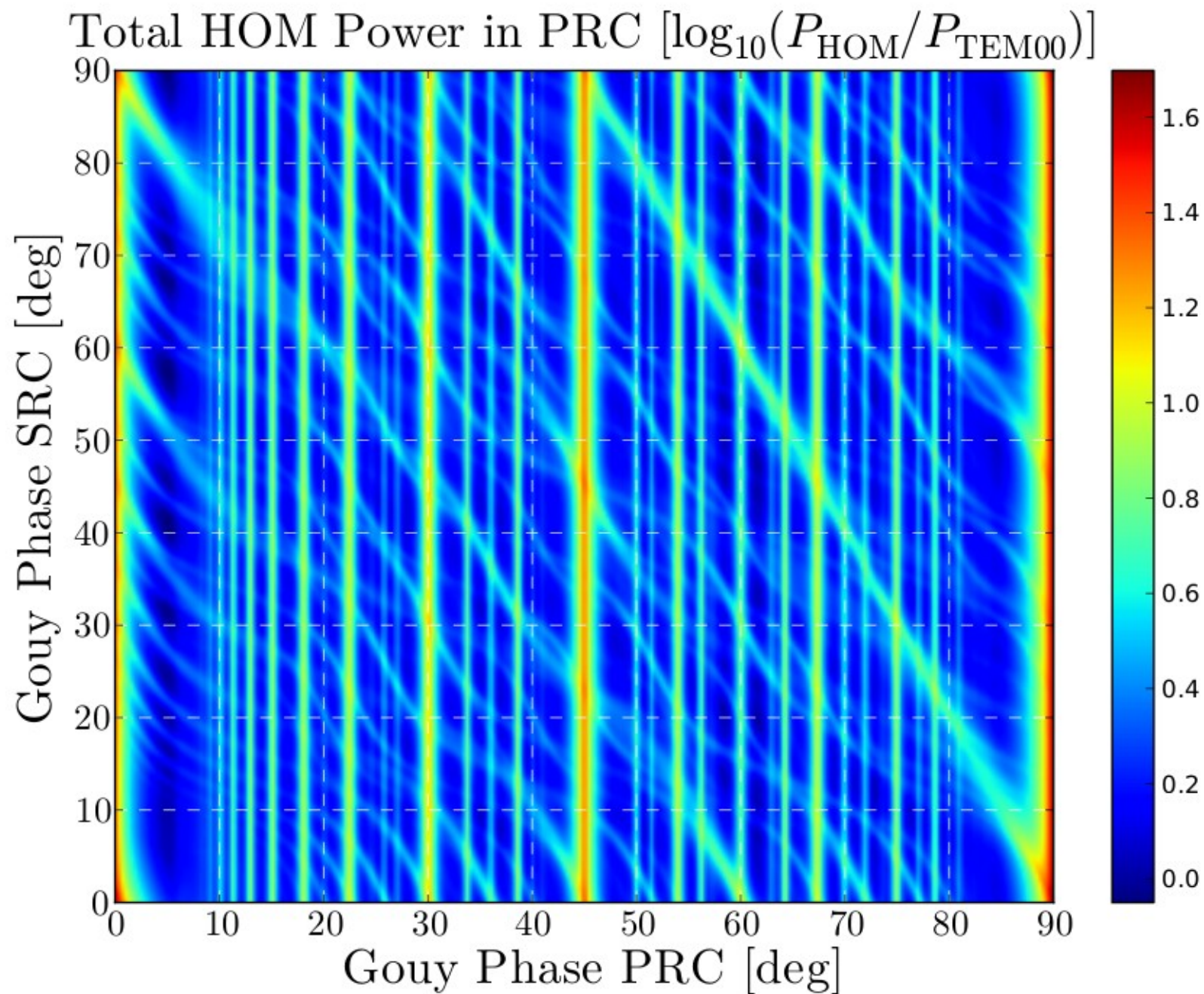
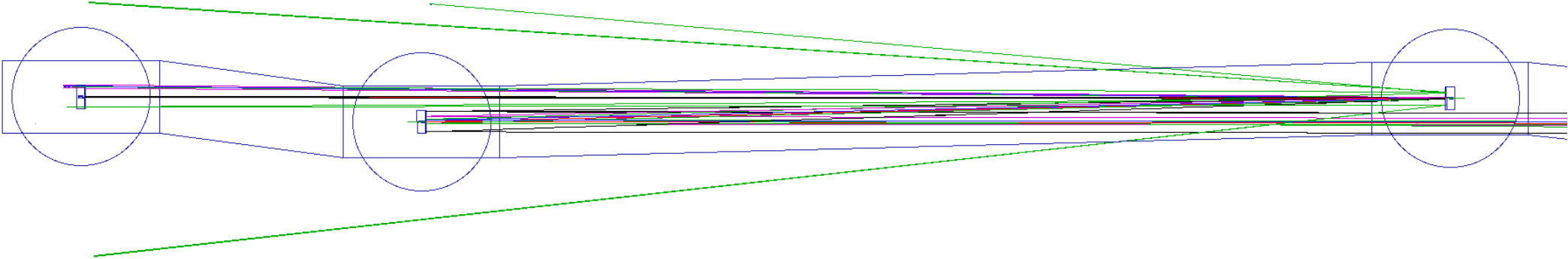


Recent Progress in the Main Interferometer Subsystem

- MIF Design Document
- Recycling Cavity Gouy Phase Optimization
 - Is 20 deg really good ?
 - For PRC closer to 90 deg is better for arm WFS signals
 - WFS signal separation (Michimura)
- Finalizing optical layout
 - Non-sequential ray tracing
 - Optimize the ITM/BS wedge angles
- iLIGO TMs for iKAGRA ?
 - Wedge angle is too different
 - Re-polish the AR surface ?



Non-sequential ray tracing for stray beam tracking



Milestones

From April 2012 to July 2012

OMC Initial Design:

- conceptual design exists
- ATC ?

Green Lock Design:

- Revise Tatsumi-design

List up necessary analog electronics