

TDR Index

Next steps



1. Introduction → Gwinc based sensitivity prediction
2. Experimental Overview
3. Second Harmonic Generation (SHG)
 - 3.1 The OPO beam pump
 - 3.2 Homemade SHG
 - 3.3 Pump beam power stabilization
 - 3.4 The green mode cleaner
4. The Optical Parametric Oscillator (OPO) → Already discussed now need to be written
5. Homodyne detection
 - 5.1 Squeezing diagnostic homodyne detection
 - 5.1.1 The detection board
 - 5.1.2 The photodiode selection
 - 5.1.3 The readout blocks
 - 5.1.4 Noise budget
6. Electronic and control scheme → Need at least for the squeezer
7. Injection → Back scattered light impact
8. Filter cavities → impact

▪ Completed but to be optimized

▪ Chapters to be written

Virgo Week 15-17 September

face to face meeting

- **When** Monday Sept 15th before h.16 or Wednesday 17th after 12 ?
- **What**
 - Status and short-term programs of the experimental activities (Napoli Rome I, Rome II, Padova)
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