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Topics

- Analyze the relative contribution of different systematic errors to the final sensitivities:
 - ◆ ND requirements for improving the measurements of the standard oscillation parameters in ongoing experiments
 - ◆ ND requirements for exotic measurements (sterile neutrinos, NSI, Lorentz violation ...)
- Review current methods and techniques: MINOS, NOvA, T2K (VALOR [↗](#)), DUNE etc
- Evaluate need for / develop new tools
- Provide guidelines to WG1-WG3 in terms of required systematic/statistics

Next Steps

- volunteers for reviewing the current status of the effect of the ND in the determination of oscillation parameters as well as on the study of exotics scenarios
- the first WG4 meeting where to:
 - ◆ present ourselves and our interests
 - ◆ discuss the status-of-the-art indicated in the aforementioned review and identify possible ND technologies not taken into account in previous studies
 - ◆ identify the relevant systematics
 - ◆ future plans: how to address new analyses etc

Meetings

- 21st of September 2017, 10:30 MEST, [Agenda](#)
- 2nd of November 2017, 14:00 MEST, [Agenda](#)
- 15th of November 2017, 16:00 MEST

Documentation

- *Sterile Neutrinos*

- ◆ Reviews:

- ◇ <https://arxiv.org/abs/1507.08204>

- ◇ <https://arxiv.org/abs/1703.00860>

- ◆ DUNE:

- ◇ <https://arxiv.org/abs/1707.05348>

- ◇ <https://arxiv.org/abs/1604.04731>

- ◇ <https://arxiv.org/abs/1603.03759>

- ◆ NOvA/T2K:

- ◇ <https://arxiv.org/abs/1706.04592>

- ◇ <https://arxiv.org/abs/1601.05995>

- ◆ MINOS/+

- ◇ <https://arxiv.org/abs/1607.01176>

- *NSI studies*

- ◆ Reviews:

- ◇ <https://arxiv.org/abs/1505.06254>

- ◇ <https://arxiv.org/abs/1209.2710>

- ◆ DUNE:

- ◇ <https://arxiv.org/abs/1608.04719>

- ◇ <https://arxiv.org/abs/1606.08851>

- ◇ <https://arxiv.org/abs/1606.05662>

- ◇ <https://arxiv.org/abs/1511.05562>

- ◆ T2K-T2HKK

- ◇ <https://arxiv.org/abs/1611.06141>

- VALOR homepage <https://valor.pp.rl.ac.uk>

- [[<https://indico.fnal.gov/getFile.py/access?contribId=0&resId=0&materialId=slides&confId=14945>][General Fit Oscillations remarks (Dr. X.Qian report from VietNu)]]

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