

Kick-Off meeting

WG4: Sensitivity Studies

Convenors:

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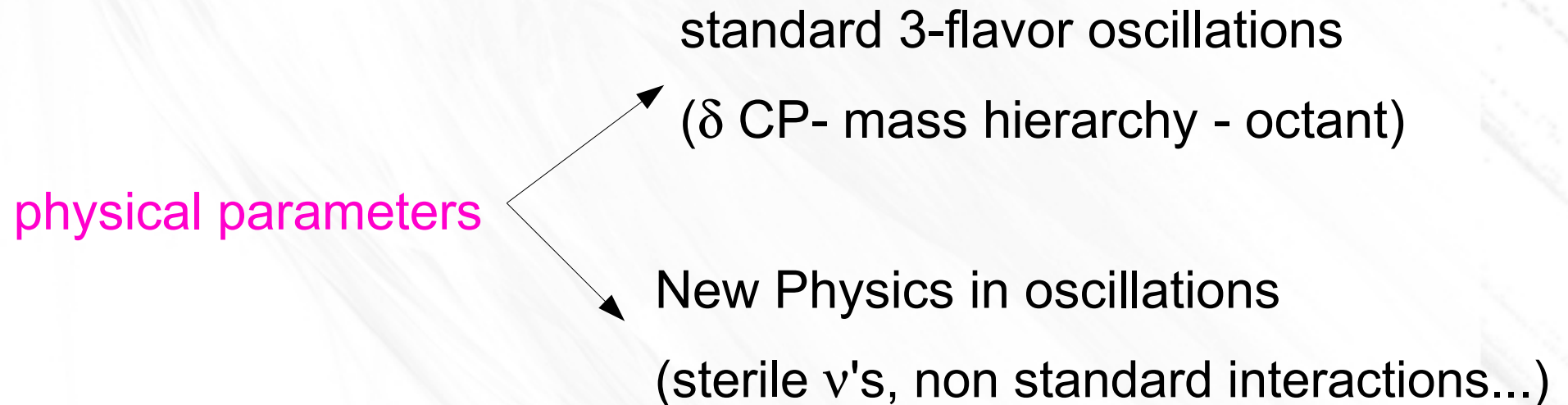
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Twiki page:

<https://twiki.cern.ch/twiki/bin/view/CENF/NearDetectorWG4>

Topics

impact of **experimental** and **theoretical** uncertainties on the extraction of **physical parameters**



some references related to our WG4 listed on the twiki page

Topics

impact of **experimental** and **theoretical** uncertainties on the extraction of **physical parameters**

**experimental
uncertainties**

several sources

knowledge of ν -N cross
section (near to far extrapolation...)

ν energy reconstruction

knowledge of ν flux

....

Topics

impact of **experimental** and **theoretical** uncertainties on the extraction of **physical parameters**

**theoretical
uncertainties**

several sources



nuclear models for ν -N scattering



parameter correlations

(how well do we have to know the mixing angles and mass differences to extract other parameters with sufficient precision)

Primary goal

Requirements for a Near Detector to reduce such uncertainties

depends on the physics we want to study:
Standard oscillation physics vs New Physics

- Overview of MINOS techniques (how you go from the Near Detector data to the Far Detector prediction)

Leigh Howard Whitehead (CERN)

- Overview of T2K techniques

Davide Sgalaberna (Universite' de Geneve (CH))