

DNE

Théorie

Neutrino

OGMA

DNR...?

- Nucleosynthesis and clusters (STELLA): $^{12}\text{C} + ^{12}\text{C}$ fusion, stellar evolution
- Reaction mechanism studies (PARIS, Neutromania)
- Exotic nuclei studies (AGATA)
- Superheavy elements (Dubna, Riken, S3/SIRIUS)

► Past/on-going transversal projects?

- Joint experimental ↔ theoretical physics projects
- Combined analysis GW/ ν Virgo ↔ KM3Net
- Combined analysis ν MO JUNO ↔ ORCA

► Possible future transversal projects?

- Stellar evolution ↔ JUNO/KM3Net: solar ν_s ? Pre-SN ν_s ? ν_s from DM annihilation?
- EoS: GWs ↔ nuclear theory inputs?
- Stellar evolution ↔ GWs/JUNO: nuclear rates → frequency SN/GWs?
- Nuclear data ↔ JUNO/ESSnuSB: cross-sections/modeling for any detection process?
- Nuclear data ↔ reactor $\bar{\nu}_e$?
- Analysis tools?
- Technologies?

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