

J3- NU

- Timeframe: April 2025 - March 2028
- New challenges / differences wrt J2-nu
 - Construction period for Hyper-K during J3-nu timeframe
 - Final data taking for T2K and start data taking for Hyper-K
 - Hyper-K Far Detector operation and Super-K continuing
 - Handover ND280 from T2K to Hyper-K
 - Finishing construction of IWCD
- Secondments depend on J-host (KEK, UTokyo) and WP, but not on WP tasks.
- It's easier to associate a WP with a J-host for accountability.

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► Interests of J3-nu participants.

- T2K(SK)/Hyper-K: King's [9 UK institutions], IFAE, INFN, Universidad de Sevilla, Universidad de Oviedo, University of Geneva, CEA, NCBJ, EFJ-PAN, ETH-Z, CNRS. - 11 institutions
- Computing and ML (subsample of above institutions): King's, IFAE, ETH-Z, CNRS
- Advanced Detector Technologies (subsample of above institutions): CNRS

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- What we had before: WP2 T2K, WP3 Hyper-K/Super-K
 - Mixed activities at J-PARC for Hyper-K and T2K
 - All trips to Kamioka are WP3
 - Trips to KEK are T2K (WP2) or Hyper-K (WP3), depending on the goals and the year.
 - Cases for secondments for T2K: ND280 work before handover, T2K shifts, T2K meetings.
 - Case for secondments for HK at J-PARC: ND280 work after handover, IWCD work, (ND280, IWCD) HK shifts, HK meetings.

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➤ What we had before: WP2 T2K, WP3 Hyper-K/Super-K. Translating to now:

- WP2 tasks and deliverables:

- Task 1: ND280 refurbishment and maintenance

- Task 2: T2K physics, It includes T2K CM and any other meetings

- WP3 tasks and deliverables:

- Task 1: SK calibration

- Task 2: HK Construction

- Task 3: HK Commissioning

- Task 4: HK Operation

- Task 5: IWCD construction

- Task 6: IWCD commission and operation

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➤ After discussion. New J3 structure:

- WP2: Activities at KEK: ND suite
 - Task 1: ND suite new technologies.
 - Task 2: ND suite analysis.
- WP3: Activities at UTokyo: Far Detectors
 - Task 1: High-precision WC calibration and characterisation
 - Task 2: Underwater photodetection system and electronics
 - Task 3: CP analysis (umbrella)
- Computing and ML:
 - ML subtasks: sFGD/tracking, WC/PMT reconstruction, general tools
 - Computing subtask for HK/T2K
- Advanced Detector Technologies:
 - New technologies for ND280++, ROC

NEXT STEPS

- Decide WPS and structure
 - Define subtasks
 - Define deliverables (~4 per each WP), and add milestones in WP summary table
- Write J3 text in doc
- Decide secondments (Google sheet)