UU - WP3 activities plan



- Analysis of the similarity law for momentum dominated cryogenic jets for use in calculation of hazard distances: validation against SNL tests
- Analysis of the applicability of notional nozzle theory and volumetric release source concept for prediction of concentration decay in cryogenic under-expanded jets:
 - \checkmark Low pressure releases (P < 10 bar): validation against SNL tests
 - High pressure releases (P > 10 bar): validation against ICESAFE and PRESLHY experiments performed by KIT (E3.1)
- Perform simulations of experiments on multi-phase releases:
 - Contemporary engineering tool for evaluation of mass flow rate from LH2 tank with inclusion of conjugate heat transfer: HSE experiments
- Studies on formation of cryogenic mixtures of H2/O2 and H2/air (connected to WP4-Ignition)

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