



WIR SCHAFFEN WISSEN – HEUTE FÜR MORGEN

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# PIE and decay heat analysis at PSI: model effect, uncertainties and biases

IAEA Spent Fuel Characterization CRP T13018 Kick-Off Meeting, 16 February  
2021

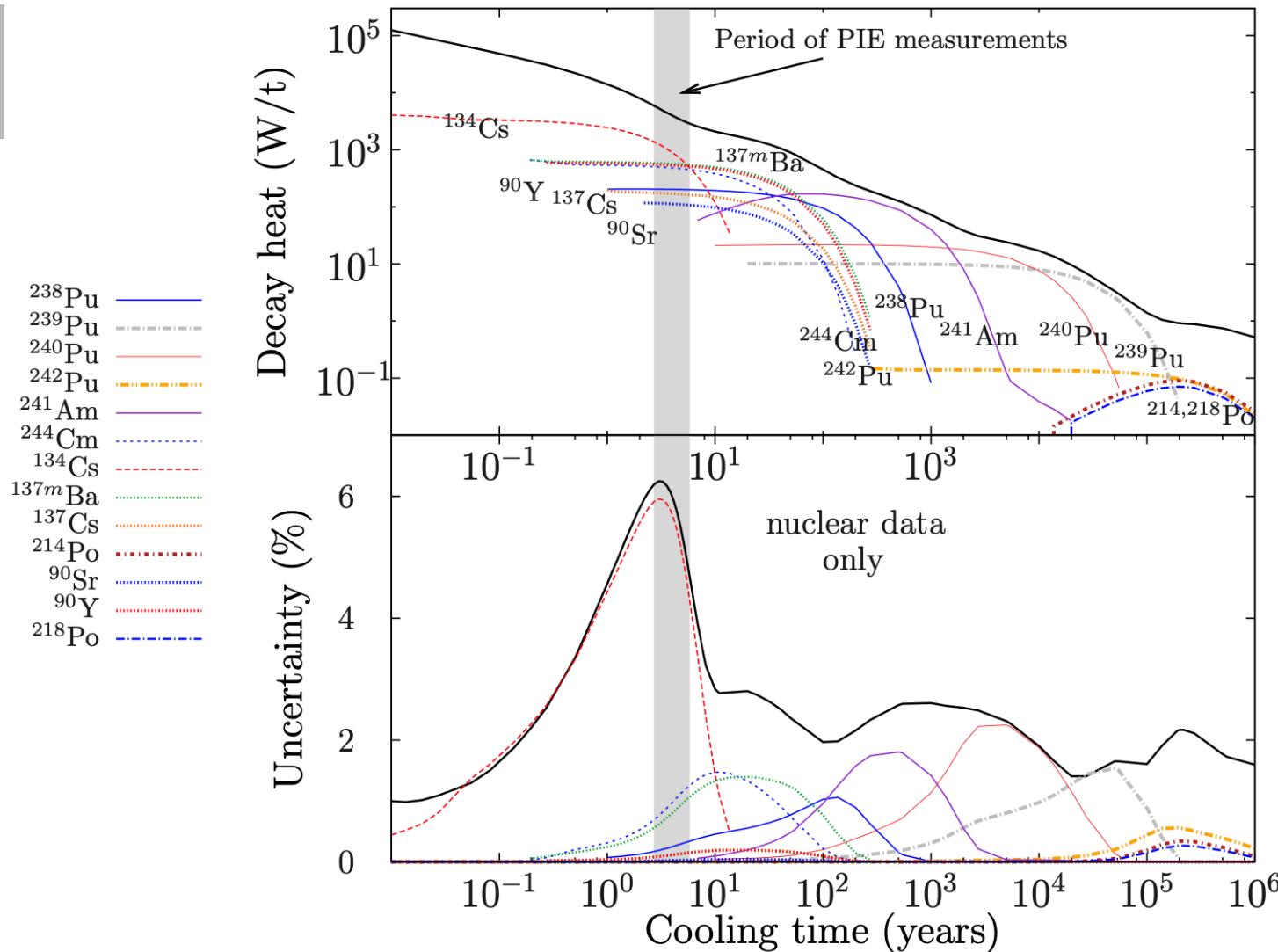


# Brief outline of the proposed work

- Study (simulation) of PIE nuclide inventory together with decay heat
- Effect of modelling (2D and 3D), libraries (nuclear data), uncertainties (nuclear data, manufacturing tolerances, operating conditions)
- Effect of isotope "bias" on decay heat and vice versa
- Simulations with CASMO5, eventually SIMULATE and SNF
- Study of U1, GU1, GU3, BM1 samples and SKB-50 assemblies
- Link with EU project EURAD WP.8, NEA JEFF project and internal projects

# Example

- Contributing isotopes to decay heat uncertainties



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