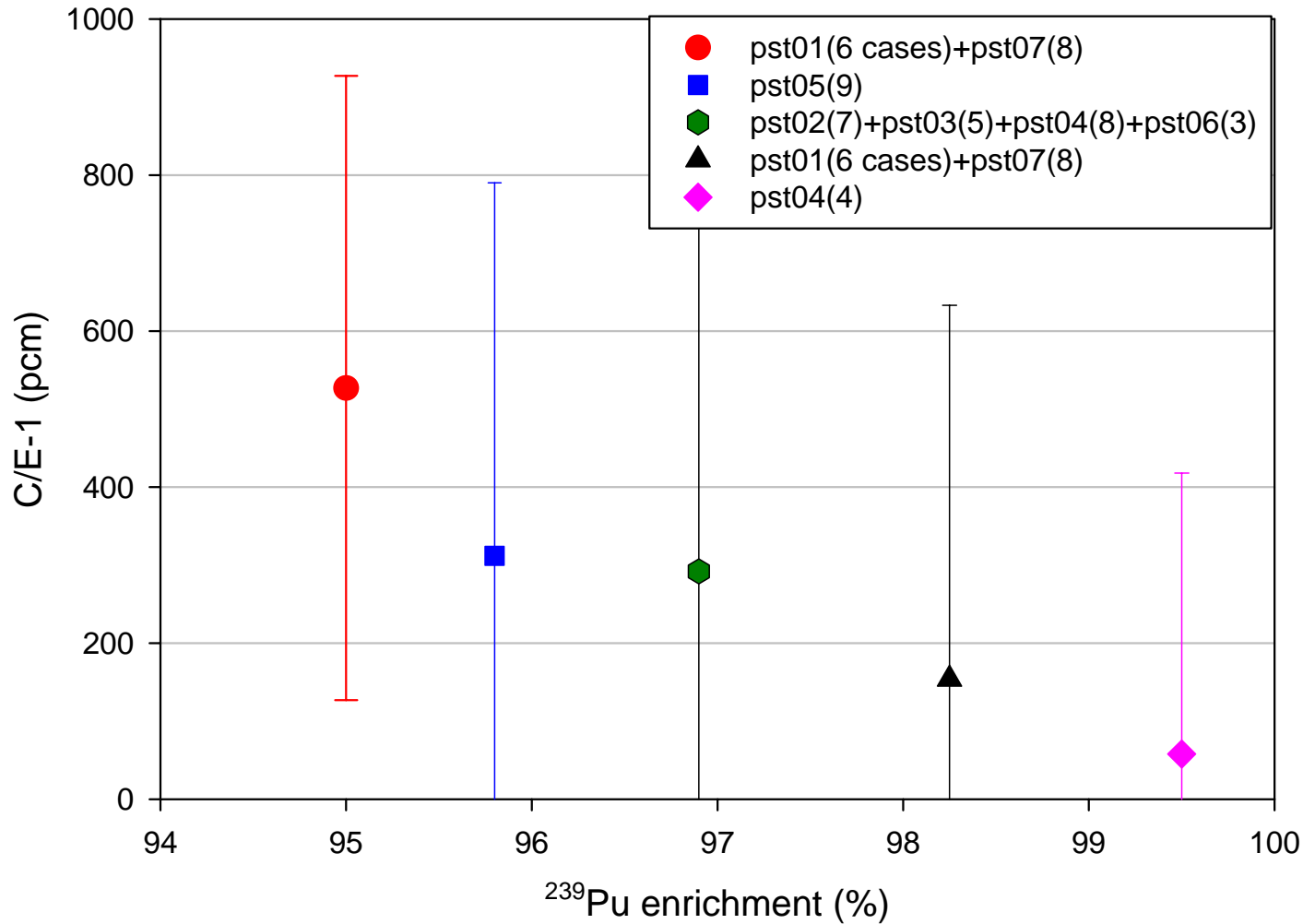


^{239}Pu (water solutions) thermal neutron spectrum benchmarks
(S.C. van der Marck)

Results are averaged on cases with same ^{239}Pu enrichment

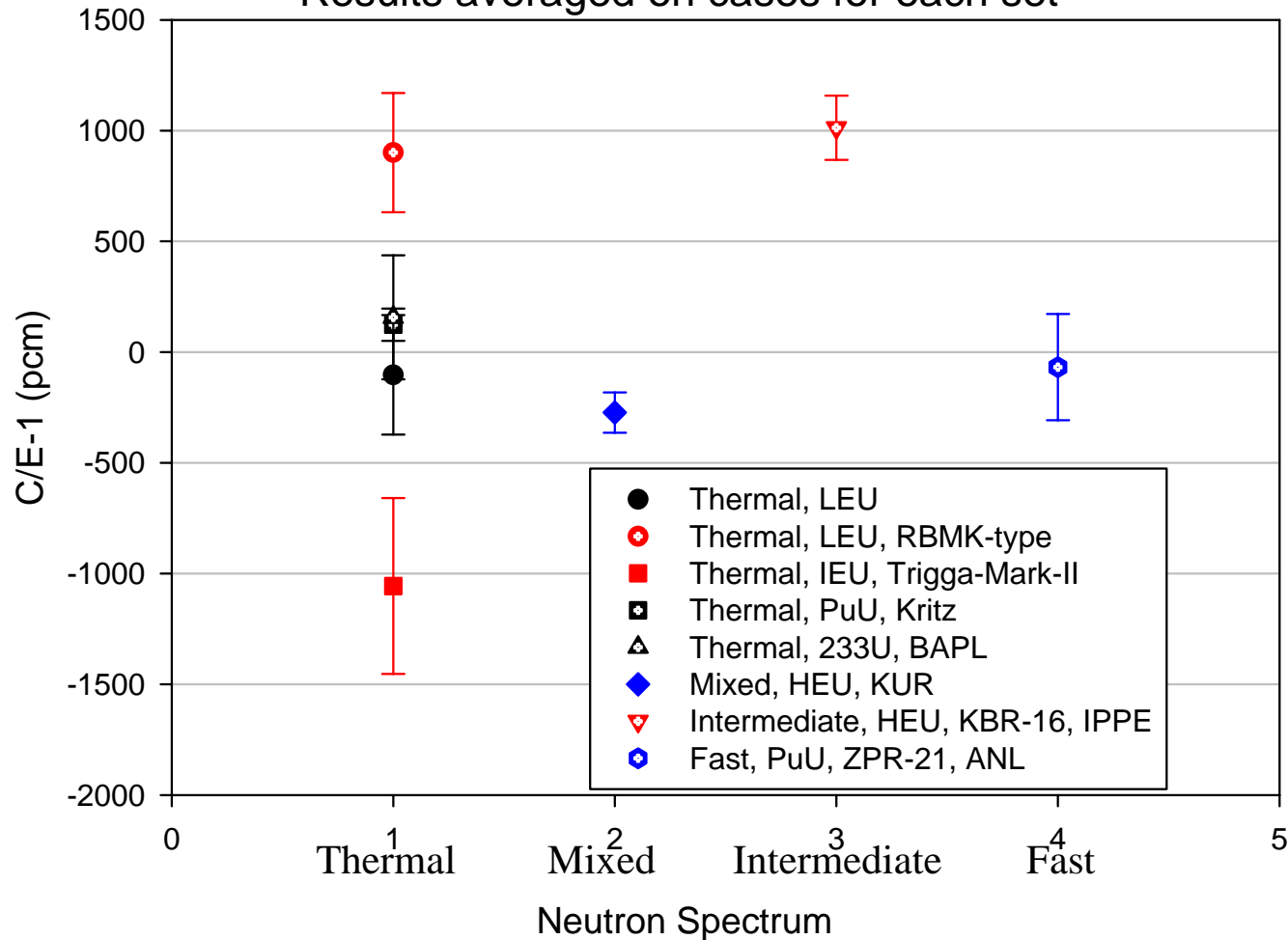


This may be an indication that ENDF/B-VIIb2 thermal constants for ^{239}Pu are good.

Slope is probably due to ^{240}Pu , which has strong resonance at 1.056 eV, rising up I_γ to 8467 b and I_f to 9.09 b in ENDF/b-VIIb2.

New Atlas2006 value for I_f is 3.16 b

Zr criticality benchmarks (S.C. van der Marck)
Results averaged on cases for each set



Benchmarks containing Zr are grouped depending on the type of neutron spectrum.

Result for each benchmark presents an arithmetical average on cases which may differ by concentrations of different materials.

Sensitivity to the Zr cross section is different in different benchmarks (and cases of the same benchmark).

RBMK and Trigg results are outliers(?)

Keff is overpredicted (KBR-16) or not (KUR) for mixed/intermediate spectra (?)