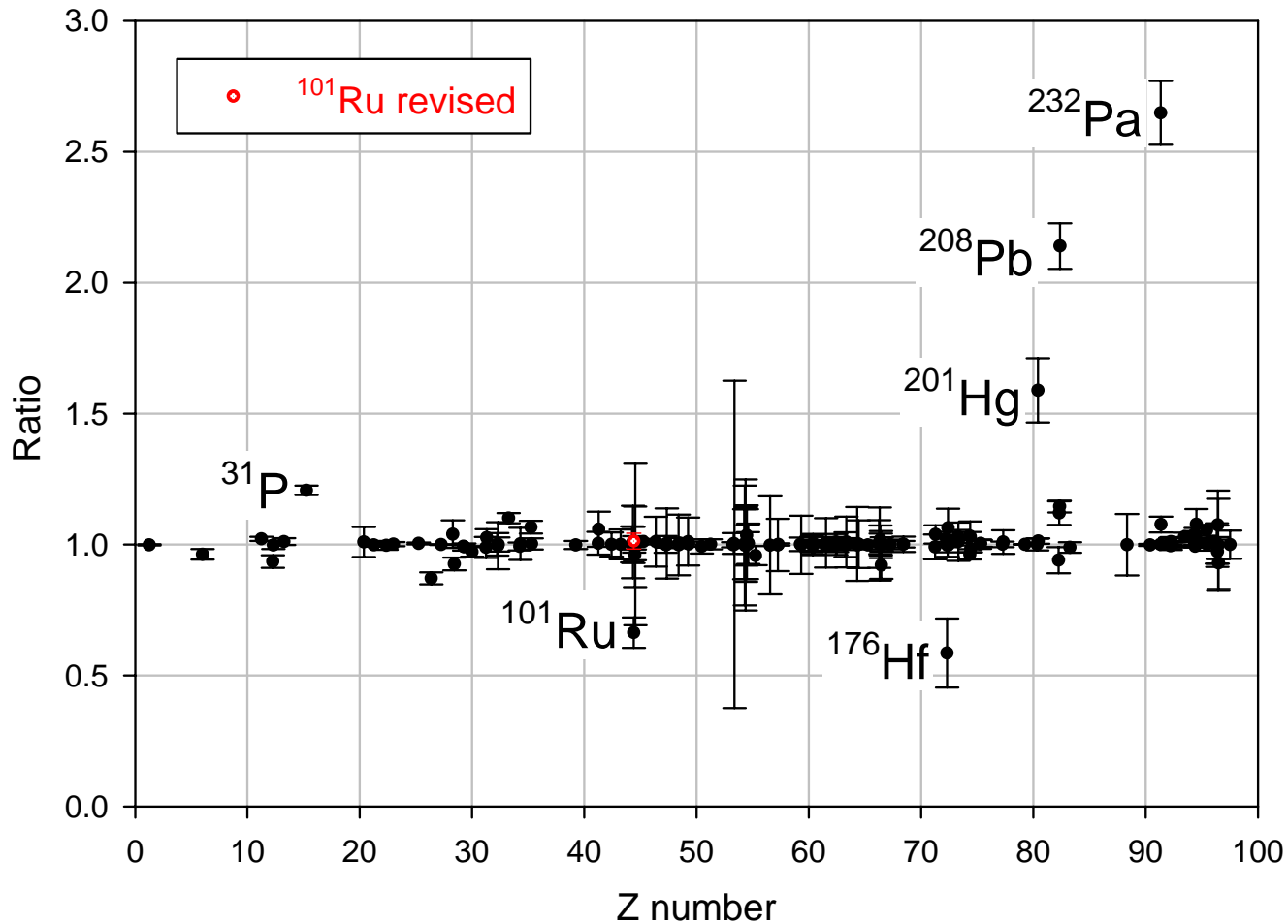


Ratio of ENDF/B-VIIb2 to Atlas-2006 [MU06, no reactor values]
capture cross sections at 0.0253 eV



(all isotopes are presented, eg. Ca isotopes ordered by increase of neutron number are shown at $20 < Z < 21$)

From 156 cases considered, 37 are discrepant ($> 1\sigma$ deviation)

Discrepancies because of:

possible errors in the files,

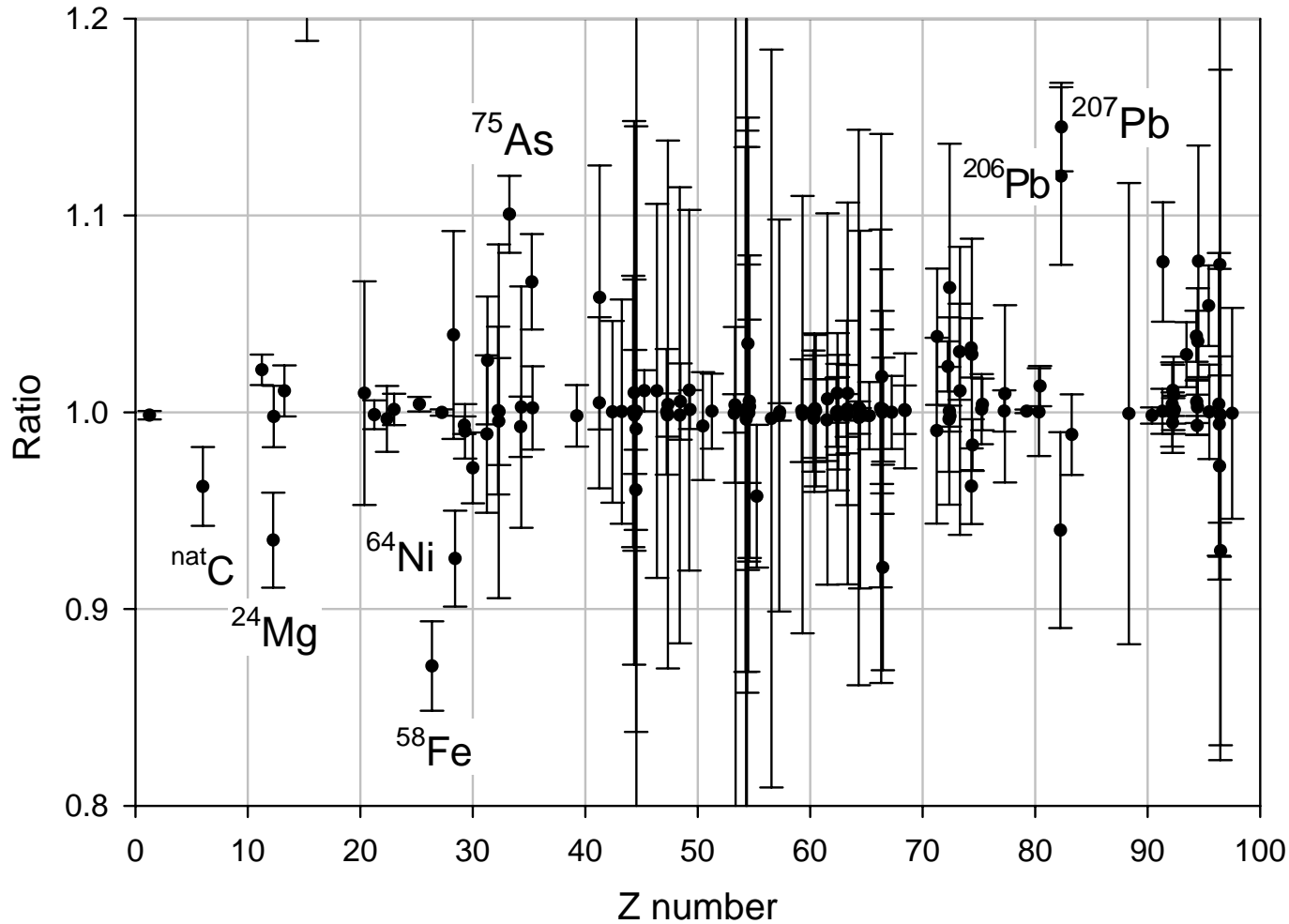
possible errors in the Atlas,

files are based at “old” BNL-325 parameters,

another value obtained by evaluator

The discrepancy should be analyzed and removed where it is possible. This is partially done for fission product nuclides

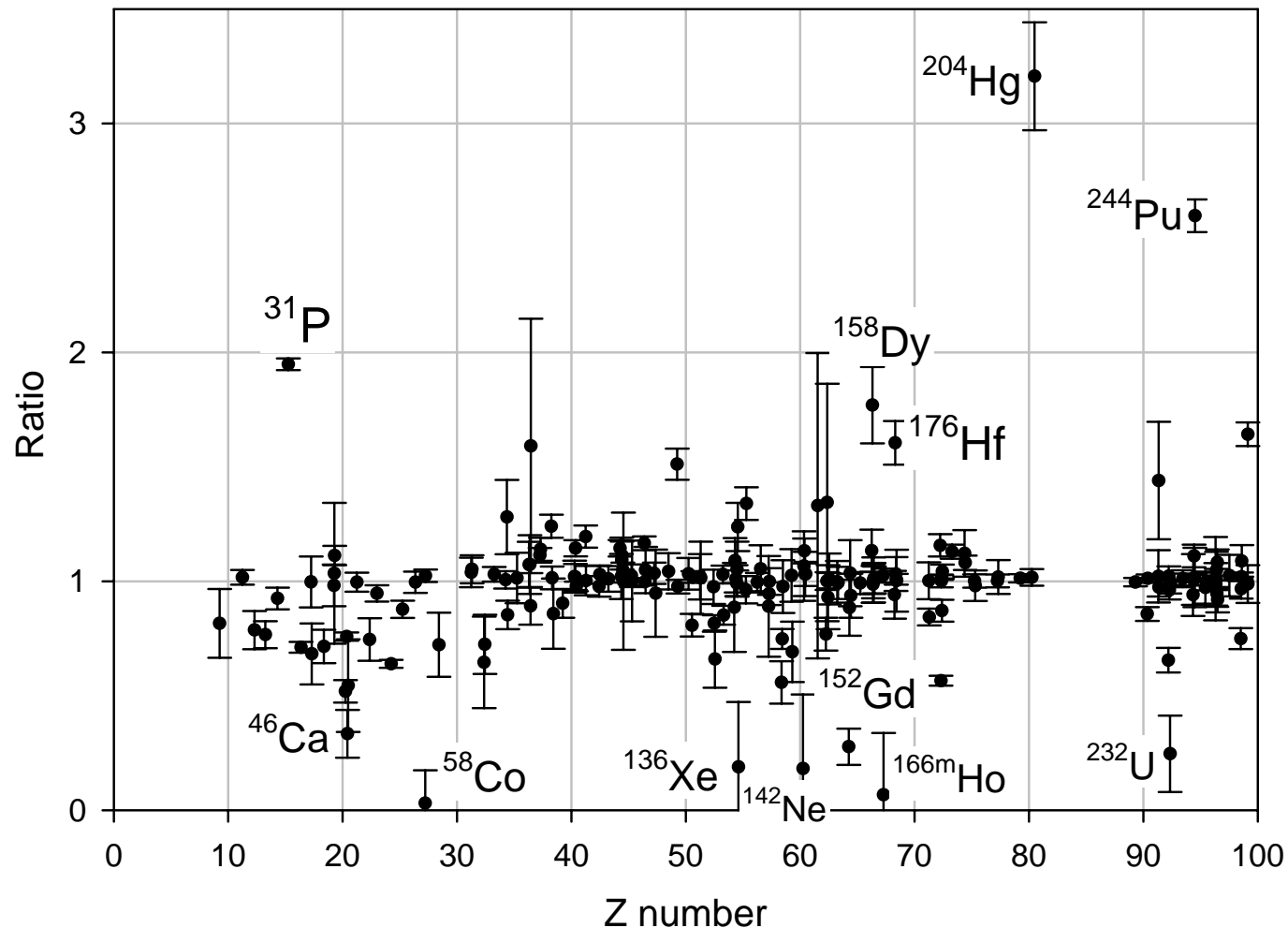
Ratio of ENDF/B-VIIb2 to Atlas-2006 [MU06, no reactor values]
capture cross sections at 0.0253 eV



As previous figure, but expanded to show details

(all isotopes are presented, eg. Ca isotopes ordered by increase of neutron number are shown at $20 < Z < 21$)

Ratio of ENDF/B-VIIb2 to Atlas-2006 (experimental) [MU06] capture resonance integral



(all isotopes are presented, eg. Ca isotopes ordered by increase of neutron number are shown at $20 < Z < 21$)

From 186 cases

78 cases are discrepant

The reasons of the discrepancies are similar as for thermal capture cross sections.

Additionally there can be differences between results of direct reactor measurements of the RI and calculated from the experimentally determined resonance parameters.

The discrepancy should be analyzed and removed where it is possible. This is partially done for fission product nuclides