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SHE – Production Mechanisms

Discussion Contribution

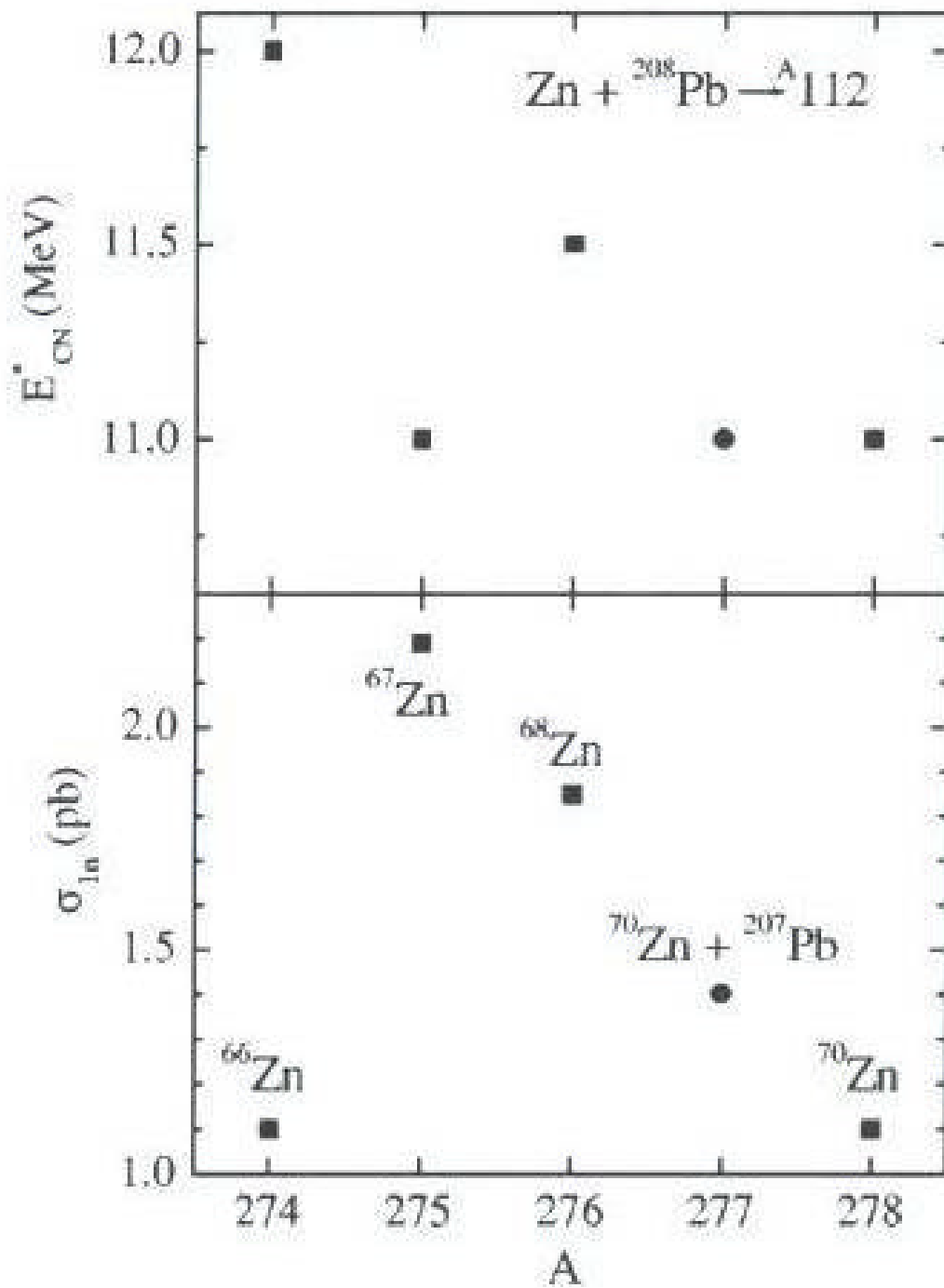


FIG. 3. The same as in Fig. 2, but for the fusion reactions $Zn + ^{208}Pb \rightarrow ^A112$ and $^{68}Zn + ^{207}Pb \rightarrow ^{275}112$.

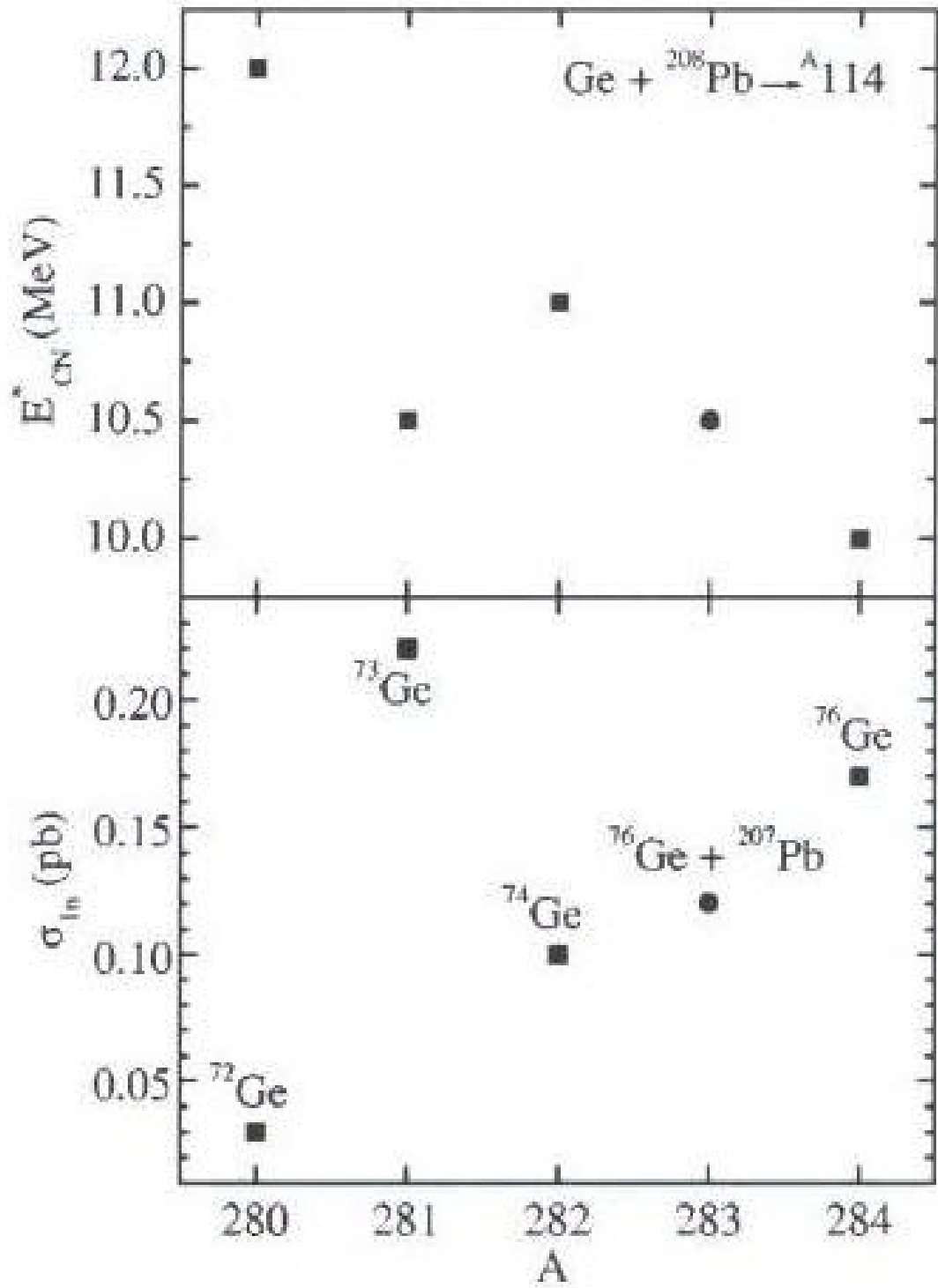


FIG. 4. The same as in Fig. 2, but for the fusion reactions $\text{Ge} + {}^{208}\text{Pb} \rightarrow {}^A 114$ and ${}^{76}\text{Ge} + {}^{207}\text{Pb} \rightarrow {}^{283} 114$.

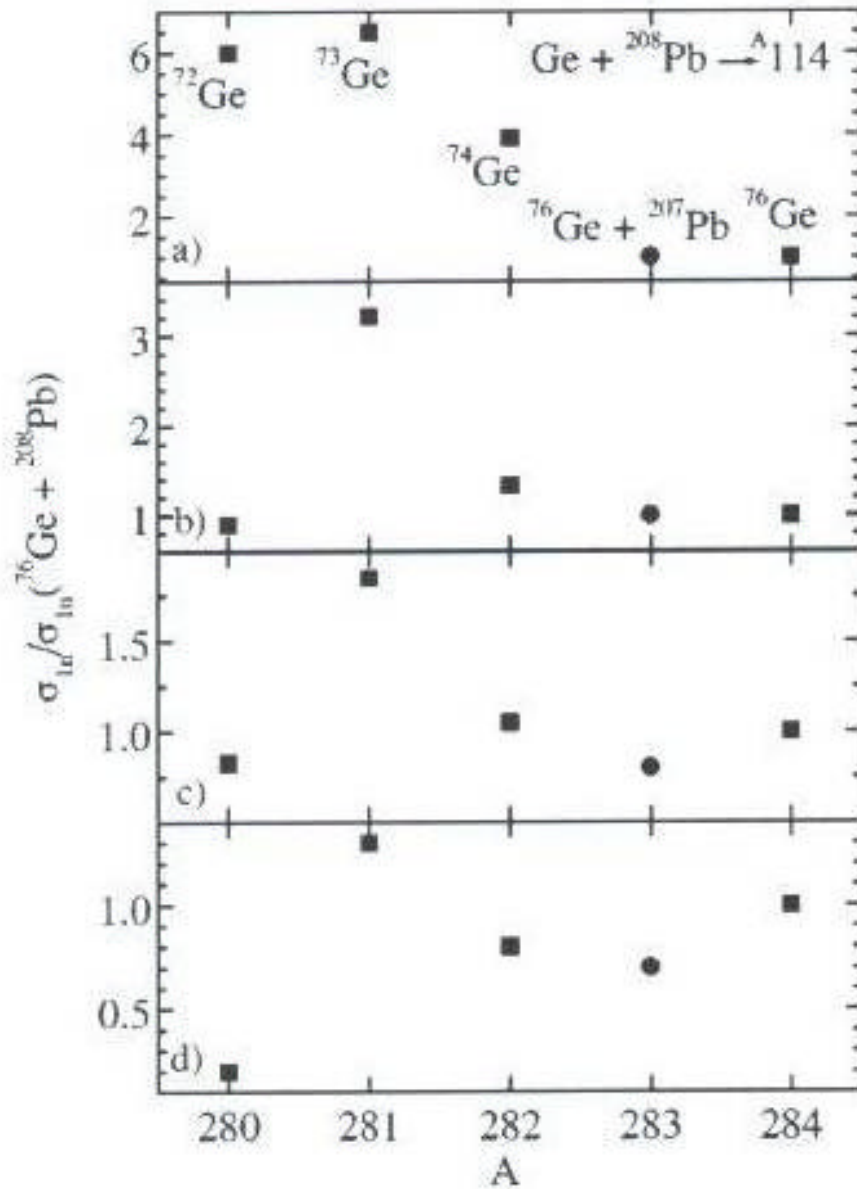


FIG. 5. The calculated ratios between the maximal production cross sections in the reactions $\text{Ge} + \text{Pb} \rightarrow ^A114$ and $^{76}\text{Ge} + ^{208}\text{Pb} \rightarrow ^{284}114$ as functions of A . The results obtained with data of Ref. [21], of finite range droplet model [20], of finite range liquid drop model [20], and of Ref. [17] are shown from upper part to lower part, respectively.

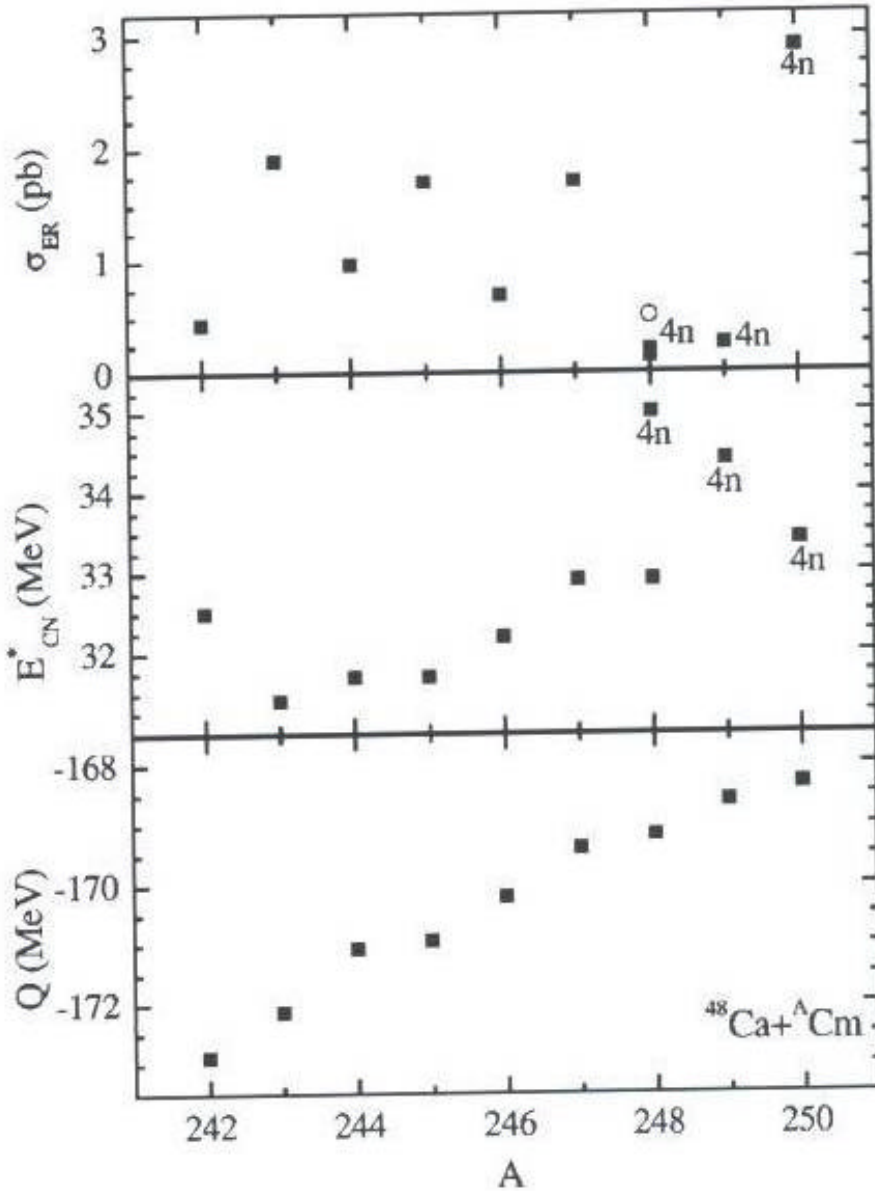


FIG. 4. The same as in Fig. 1, but for the fusion reactions $^{48}\text{Ca} + ^A\text{Cm}$. The maximal evaporation residue cross sections in the $4n$ channel (upper part) at the corresponding excitation energies of compound nuclei (middle part) are indicated. The experimental data of the reactions $^{48}\text{Ca} + ^{248}\text{Cm} \rightarrow ^{292}116 + 4n$ ($E_{CN}^* \approx 31-36$ MeV) [3] are presented by an open circle.