Mechanisms of non-adiabatic charge-exchange transitions in slow collisions of W ions with He, Ar and Kr atoms

Inga Yu. Tolstikhina , M. Imai , V.P. Shevelko

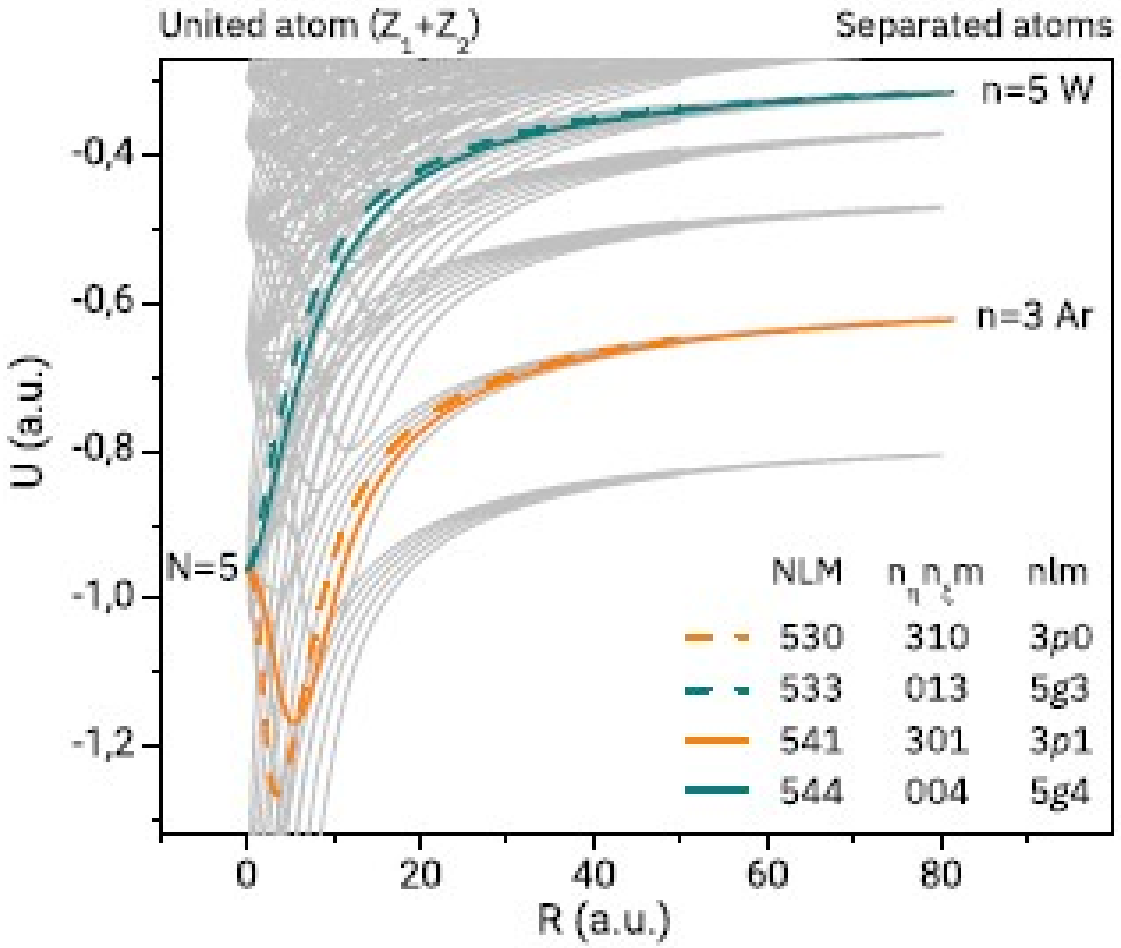

Fig. 2. Potential curves describing the CX process $W^+(5d^46s) + Ar \rightarrow W(5d^56s) + Ar^+$ as a function of the internuclear distance R.

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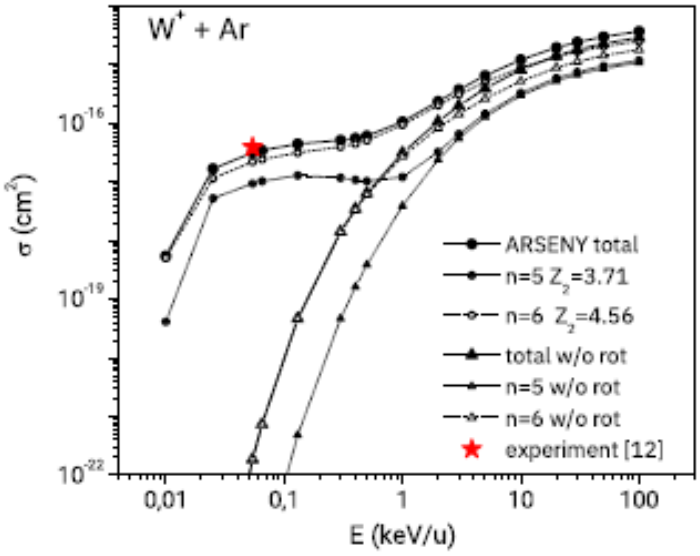

Fig. 3. Calculated total and partial CX cross sections as a function of collision energy with and without account for the rotational interaction in reaction (5).

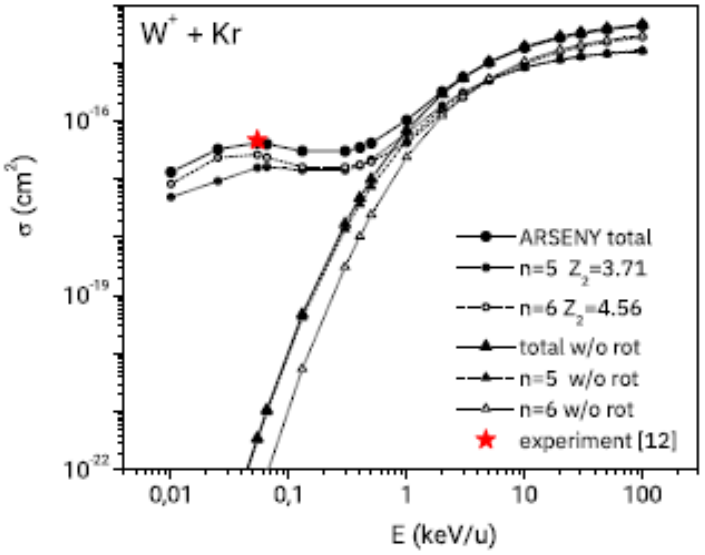

Fig. 7. Total and partial CX cross sections as a function of collision energy calculated with and without taking into account the rotational interaction for the reaction (6).

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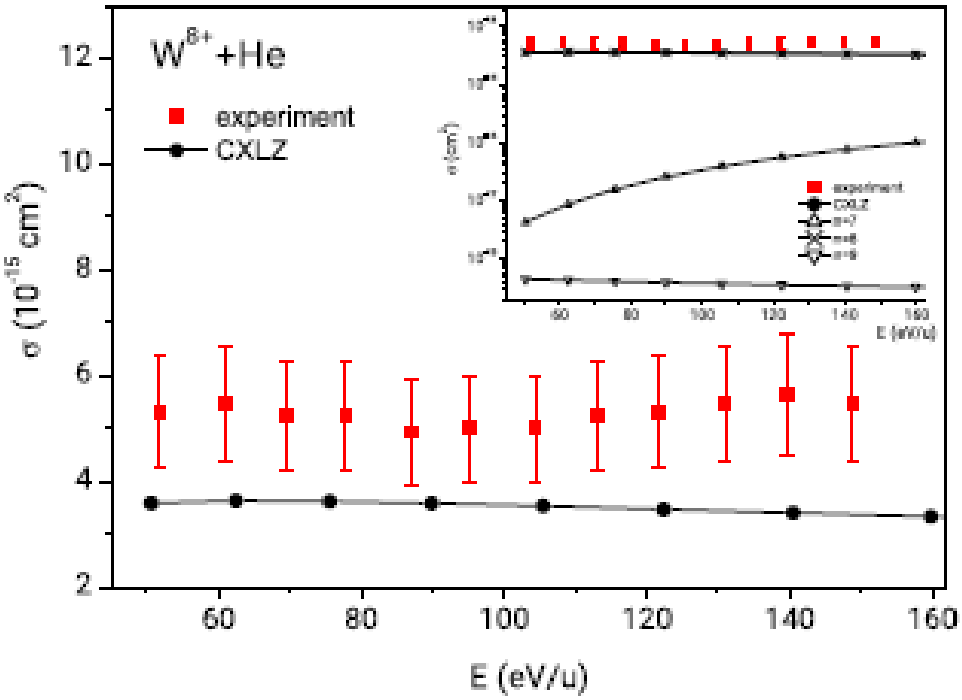

Fig. 10. Total CX cross sections as a function of collision energy for the reaction (21); inset - contributions of the different channels.

Charge-changing collisions of tungsten and its ions with neutral atoms

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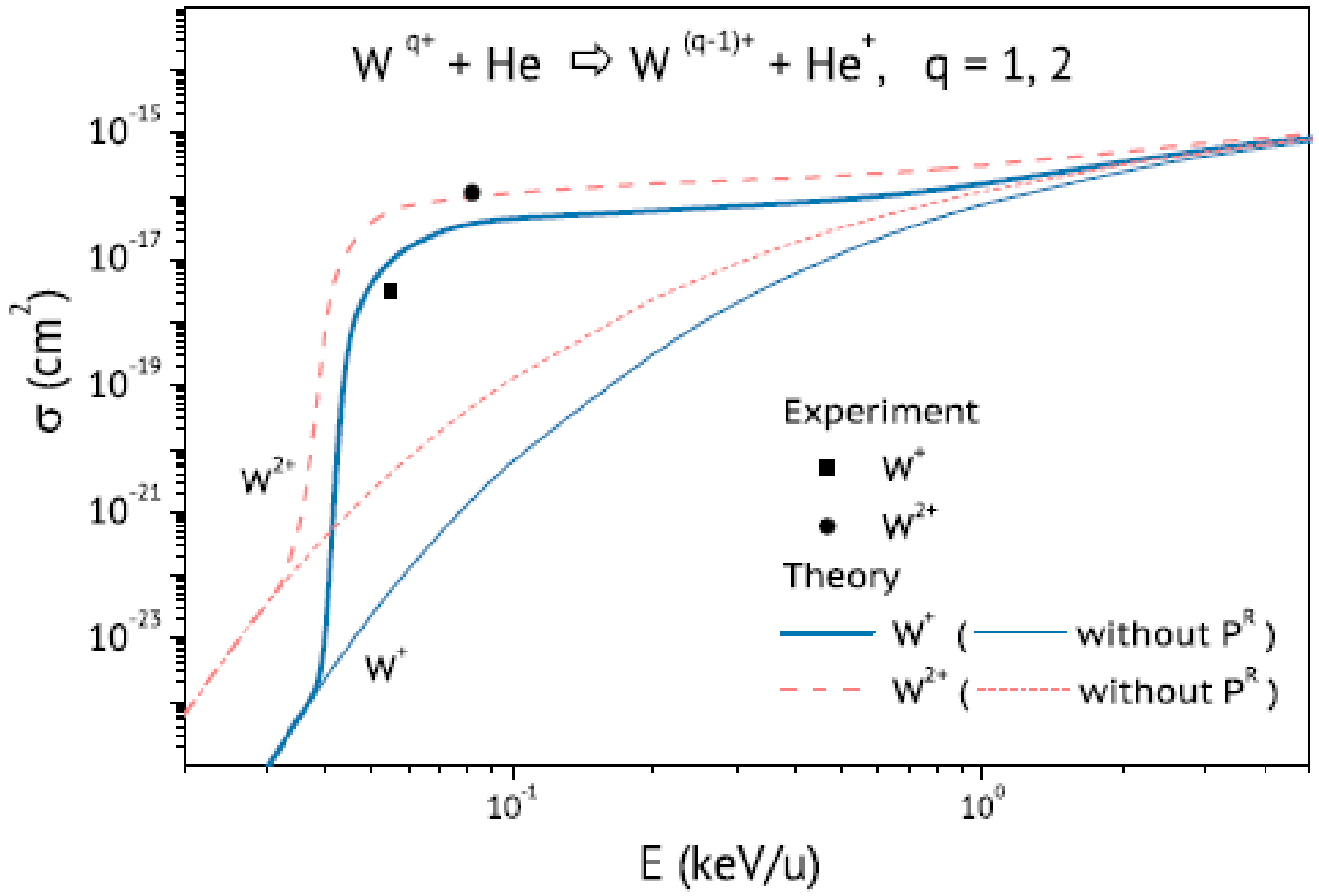

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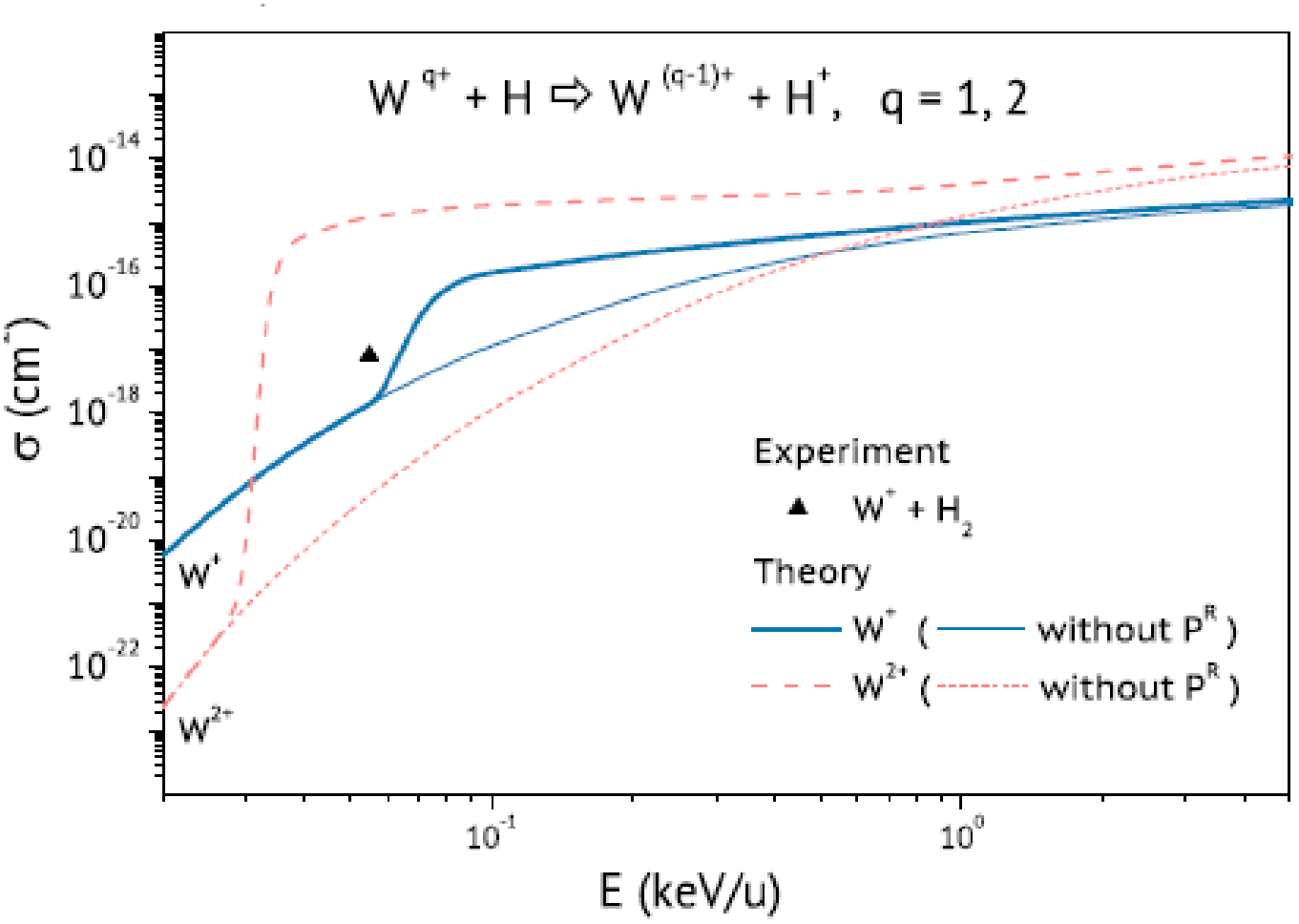

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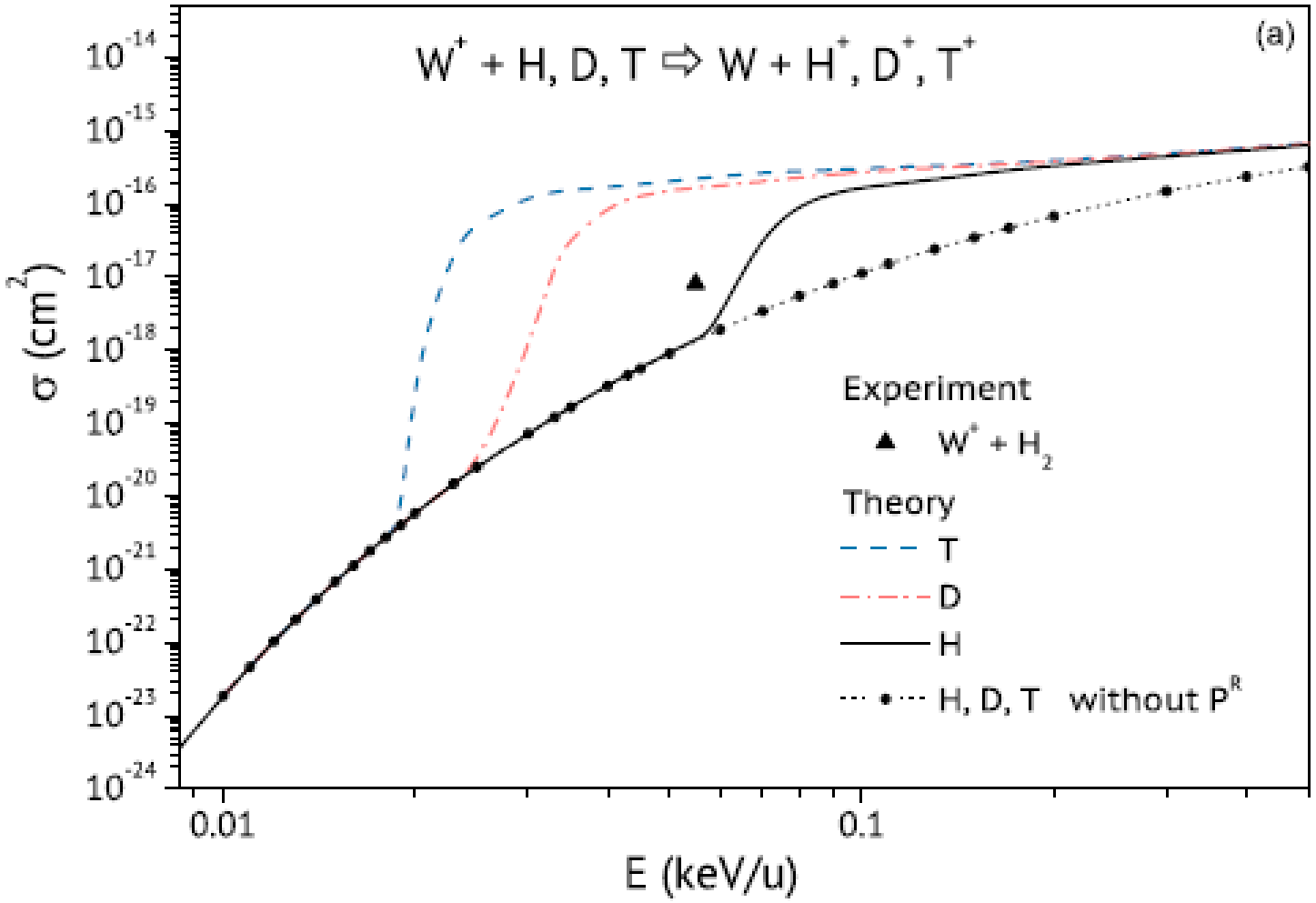
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