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Mass and isotopic effects in the Li-Li$^+$ collision MONCEF BOULEDROUA, FOUZIA BOUCHELAGHEM, Laboratoire de Physique des Rayonnements — We suggest in this work to deal with the ion-atom collision. More precisely, the transport coefficients, the temperature-dependant mobilities, and the charge-transfer phenomena are examined quatum-mechanically. Also is examined the mass and isotopic effects and their behaviour with temperature. To do so, the interatomic potentials are constructed and then injected in the radial wave equation to determine the phase shifts.

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