Energy levels, transition rates and lifetimes of 1s2s(3S)3l states for Li-like ions with $Z \leq 10$

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The study of the selective enhancement of 1s2sn$^l$ states populated by cascades in single-electron transfer collisions of ions with He and H$_2$ targets have been studied by Zouros et al. [1]. In this work, we present the energy levels, transition rates and lifetimes for Li-like ions with $Z \leq 10$ in the 1s2s(3S)3l states calculated using the multiconfiguration Dirac-Fock (MCDF) code of Desclaux and Indelicato [2, 3]. The preliminary results obtained for the 1s2s3p levels are displayed in Figure 1.

![Figure 1: Total radiative transition probabilities of the 1s2s3p levels as function of the Z.](image)

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