Vibrational energy relaxation dynamics of diatomic molecules inside superfluid helium nanodroplets. The case of the I$_2$ molecule

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Figure S1. Vibrational populations for the initial excitation $v=8$, as a function of time. Please note that the decay of this level is very fast. This can be better seen in Figure S2.
**Figure S2.** Vibrational populations for the initial excitation $v=8$, as a function of time, considering only the $v=4$-$8$ levels.