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## **Supplementary Materials**

## The Role of the Sextet Potential Energy Surface in $O_2$ + N Inelastic Collisions Processes

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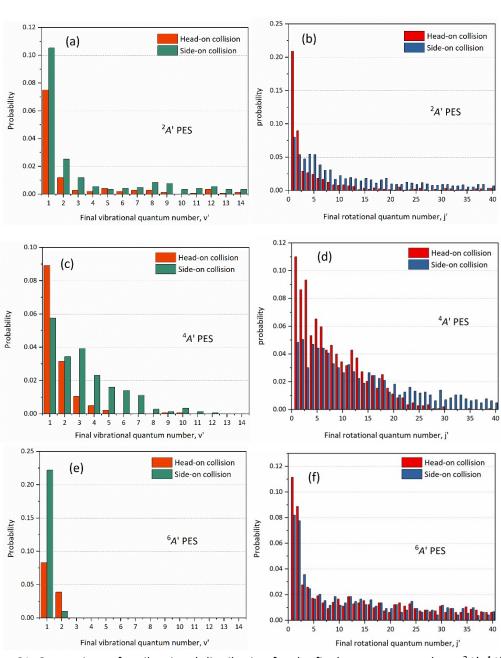


Figure. S1. Comparison of rovibrational distribution for the final states separately on  ${}^{2}A'$ ,  ${}^{4}A'$  and  ${}^{6}A'$  PESs after head-on and side-on collisions (collision energy = 5eV).