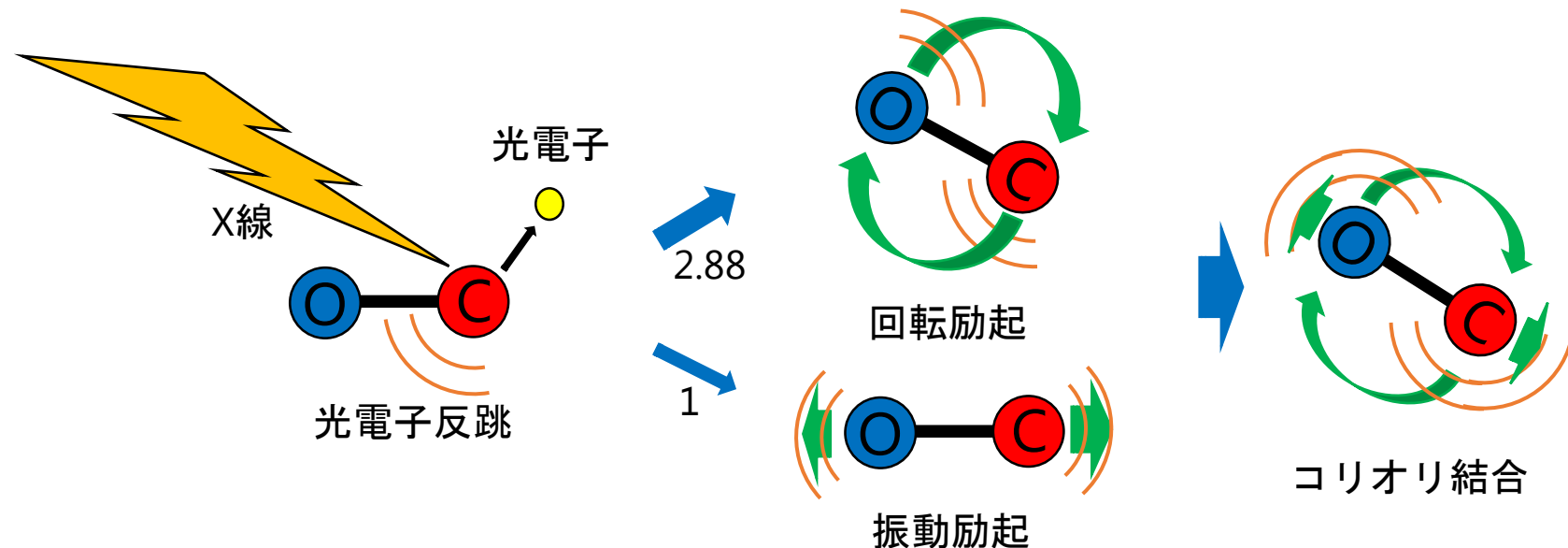


内殻光電子の反跳による分子振動と分子回転へのエネルギー移行

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Energy Transfer into Molecular Vibrations and Rotations by Recoil in Inner-Shell Photoemission

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CO分子のX線内殻光電子反跳効果を精密測定し、反跳エネルギーが分子回転と分子振動に移行される分岐比から、分子回転と分子振動とが結合する様子を明らかにした。

The international team studied X-ray photoelectron recoil effects in the CO molecule in the tender X-ray region, determined the partitioning of the recoil-induced internal excitation energy between rotational and vibrational excitation and successfully identified Coriolis coupling effects in the recoil rotational and vibrational excitation.