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Double photoionization of Be-like (Be-F^{5+}) ions[1] SHAHIN ABDEL NABY, Department of Physics, The American University of Sharjah, POB 26666, Sharjah, UAE, MICHAEL PINDZOLA, Auburn University, Auburn, Alabama 36849, USA, JAMES COLGAN, Theoretical Division, Los Alamos National Laboratory, Los Alamos, New Mexico 87545, USA — The time-dependent close-coupling method is used to study the single photon double ionization of Be-like (Be - F^{5+}) ions. Energy and angle differential cross sections are calculated to fully investigate the correlated motion of the two photoelectrons. Symmetric and anti-symmetric amplitudes are presented along the isoelectronic sequence for different energy sharing of the emitted electrons. Our total double photoionization cross sections are in good agreement with available theoretical results and experimental measurements along the Be-like ions.

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