In a nutshell:
The double-to-single photoionization ratio of atomic Li has been measured between 120 and 910 eV photon energy [11]. Using various filters we were able to significantly extend the previous range of measurements [M.-T. Huang et al, Phys. Rev. A 99, 3307 (1999)]. Our data are in agreement with the predicted high-energy limit of 3.6%. By applying simple model curves to our data, we believe that in principle measurements could have substantially to the double-photoionization cross-section ratio as predicted by theory. Furthermore, time-dependent close-coupling calculations show that all three electrons need to be considered to correctly predict the double-photoionization cross-section.

References: