

HIGH RESOLUTION VELOCITY MAP IMAGING PHOTOELECTRON SPECTROSCOPY OF THE BERYLLIUM OXIDE ANION, BeO^-

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The photodetachment spectrum of BeO^- has been studied for the first time using high resolution velocity map imaging photoelectron spectroscopy. Vibrational contours were imaged and compared with Franck-Condon simulations for the ground and excited states of the neutral. The first measured electron affinity of BeO , and anisotropies of several transitions were also measured. Experimental findings are compared to high level *ab initio* calculations.