Due to a calculational error, the calculations shown in two figures are incorrect. The corrected figures are shown below. The discussion of Fig. 1 is unchanged. In the discussion of Fig. 2 the considerations of the shoulder feature for $\theta_i=40^\circ$ at $\theta_f=60^\circ$ now no longer apply. The corrections do not change the basic conclusions of the paper regarding evidence for a larger Ru effective mass.

**FIG. 1.** Energy resolved spectra of Ar scattered from Ru(0001) at temperatures ranging from 140 to 850 K as marked. The incident energy is $E_i=0.08$ eV, the incident angle is $\theta_i=40^\circ$ and the final angle is $\theta_f=20^\circ$. The theoretical calculations, normalized to the data at each temperature, are shown as smooth solid curves and the calculated intensities relative to that at $T_\odot=140$ K are shown as dashed curves.

**FIG. 2.** Angular distributions for Ar/Ru(0001)-(1×1)H in the (1120) direction with $E_i=0.065$ eV, $T_\odot=140$ K and four different incident angles ranging from 40° to 70° as marked. The symbols are experimental data and the solid curves are calculations that have been renormalized to match the experimental data in the vicinity of the maximum in the background.