Magnetic Isomerization of Chromium Clusters\textsuperscript{1} WEI JIANG, FORREST PAYNE, LOUIS BLOOMFIELD — We have used the Stern-Gerlach deflection technique to study magnetic properties of chromium clusters of different sizes (N=20-133) at different temperatures (T=60K-120K) and magnetic fields. Though chromium bulk is antiferromagnetic, we observed that nearly all these clusters are magnetic. And the deflection profiles of them suggest that two or more magnetic isomers exist in the beam, which have significantly different magnetic moments.

\textsuperscript{1}This material is based upon work supported by NSF under Grant No. DMR-0405203.