

W0274

MoO is No Schmu or Why Less is Not Always More. Peter Müller, Dept. of Chemistry, Massachusetts Inst. of Technology, 77 Massachusetts Ave., Cambridge, MA, pmueller@mit.edu.

We live in times of high throughput, high flux, high sensitivity and, unfortunately, sometimes also low standards. Advances in software development and detector technology, as well as stronger X-ray sources have frequently been used only to increase the number of structures and not their quality. With modern equipment, it is possible to determine a small-molecule structure in house within under an hour. This is a great achievement as long as nobody asks about the quality of such a structure.

This presentation is dedicated to the advantages of high quality data, focusing mainly on two related points: The combination of phi- and omega scans and high Multiplicity of Observations (MoO).

From the Yiddish: "Schmu" = cheating, harmless fraud, rumor. "Schmu redder" = to talk nonsense