

**The Stern-Gerlach Song**  
**Words & Chords by Marian McKenzie, 1/10/10**  
**Tune: The Noble Duke of York (traditional)**

**Herr Gerlach and Herr Stern / Had silver atoms galore**  
D G  
A7 A7 D  
**They measured the electrons' spins / And sent a card to Bohr,**  
D  
**Saying, when they were up, they were up,**  
G  
**And when they were down, they were down.**  
A7  
**And if you thought some were halfway up,**  
A7 A7 D  
**You were WRONG [Pause] Just up or down!**  
D D7 G E  
**The quantized silver lines were / More visible by far**  
A A7 D  
**When turned to silver sulfide by / Stern's sulfurous cigar**  
D D7 G E  
**Their observations and / The conclusions that they yield**  
A A7 D  
**Have formed a firm foundation for / The quantum physics field,**  
A7 D  
**'Cause [Faster] When they were up, they were up**  
G  
**And when they were down, they were down**  
A7  
**And if you thought some were halfway up,**  
A7 A7 D  
**You were WRONG [Pause] Just up or down!**