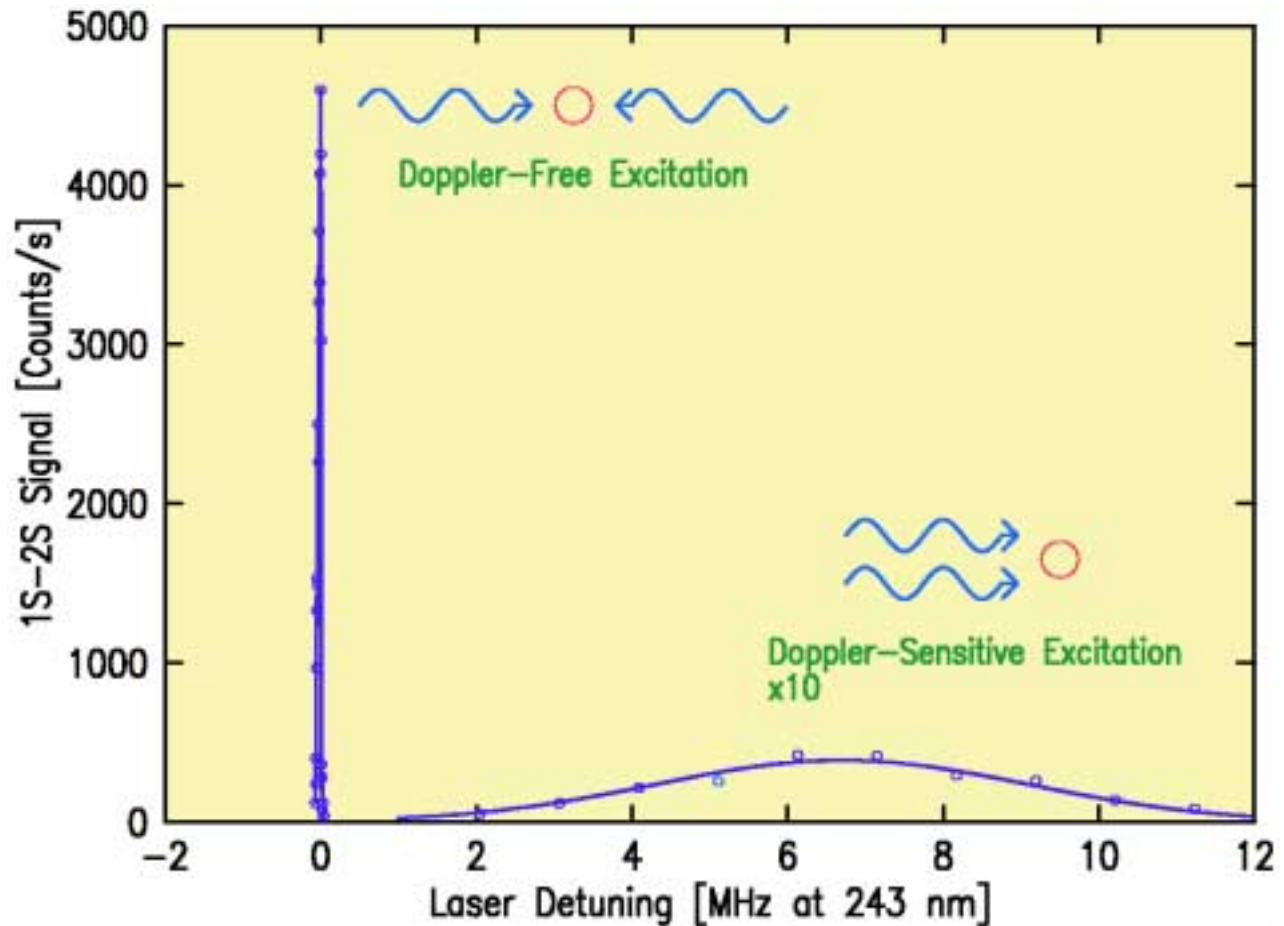


Hydrogen 1S-2S Spectrum



- Doppler-free signal is extremely narrow.
At high densities, the line is broadened by the cold collision shift, providing a measure of the density.
- Doppler-sensitive signal is recoil shifted by 7 MHz.
The width provides a measure of the temperature.