## Strontium diffusion in atmospheres of CP stars

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Strontium is often observed to be overabundant in atmospheres of chemically peculiar (CP) stars, especially in cool Ap stars (SrCrEu stars) and in some HgMn stars. We present new calculations of Sr diffusion (using our code CaratStrat) and the resulting abundance stratifications within the framework of the equilibrium hypothesis. The effect of a dipolar magnetic field configuration is considered and the resultant 2D distribution of Sr (vs. depth and magnetic colatitude) will be shown.