Handling of Atomic Data

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State-of-the-art NLTE model atmosphere codes have arrived at a high level of “numerical” sophistication and are an adequate tool to analyze the available high-quality spectra from the infrared to the X-ray wavelength range. The computational capacities allow the calculation which include all elements from hydrogen up to the iron group and the lack of reliable atomic data has become a crucial problem for further progress.

We summarize briefly the available sources of atomic data and how these are implemented in the Tübingen Model Atmosphere Package (TMAP).