A Grid of NLTE Line-Blanketed Model Atmospheres

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We have constructed a grid of over 300 NLTE fully-blanketed model atmospheres covering the parameter range of O-type stars at various metallicities. We have assumed a plane-parallel geometry, hydrostatic and radiative equilibria. The models incorporate about 100,000 NLTE atomic levels of over 40 ions of H , He, C, N, O, Ne, Si, P, S, Fe, and Ni, which are grouped into about 900 superlevels. The models will be made publicly available in the coming months.