The Mapping Problem

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1. INTRODUCTION

Check out Luger et al. (2019) and stuff, and look at Figures 1 and 2.

REFERENCES

Luger, R., et al. 2019, AJ, 157, 64
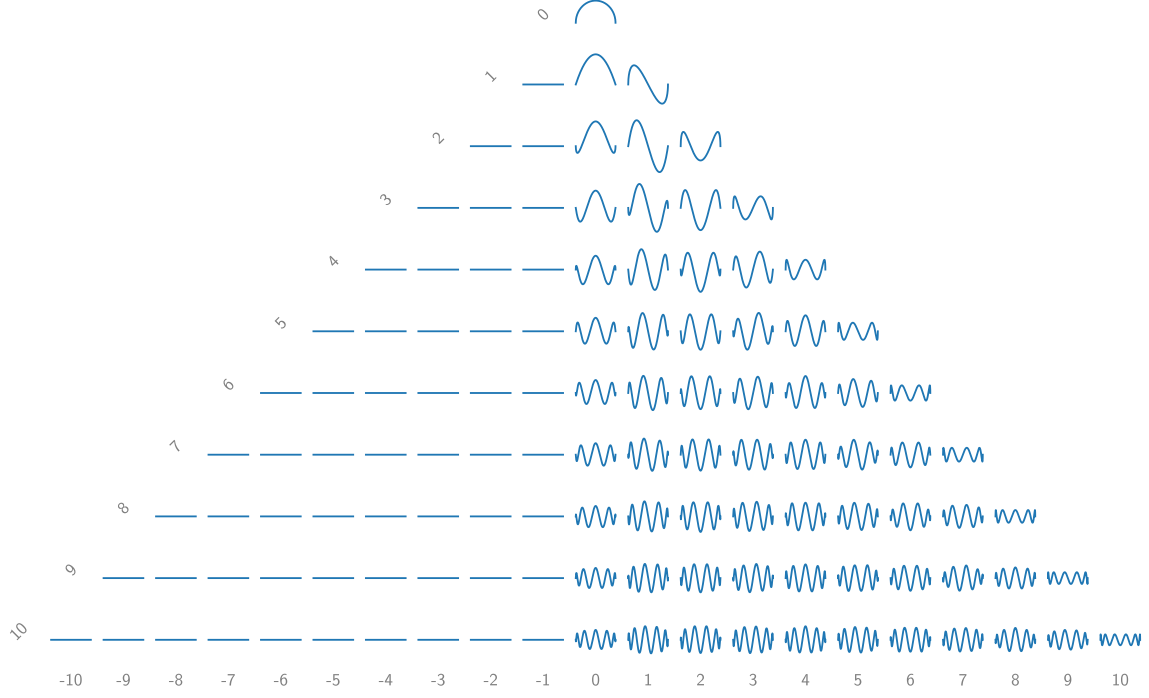
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Figure 1. The Doppler basis for a rigidly rotating star computed up to spherical harmonic degree $l = 10$. Rows correspond to the degree l and columns correspond to the order m. These functions encode the contribution of each spherical harmonic to the rotational broadening of features in the stellar spectrum.
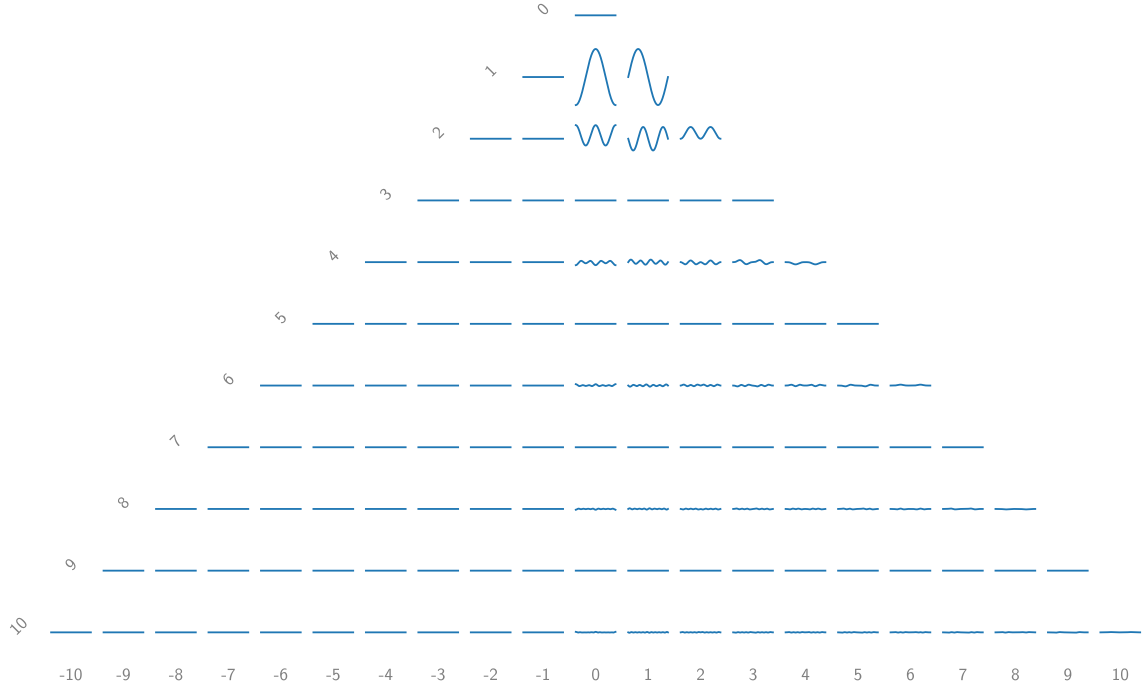

Figure 2. The photometric basis for a star rotating about an axis perpendicular to the line of sight. Compare to Figure 1.