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## **POS-8 Project VeSElKA: results of abundance analysis for the stars HD53929 and HD63975**

*Tuesday 12 June 2018 18:00 (2 minutes)*

High resolution and high signal to noise spectra of two HgMn stars, HD53929 and HD63975, were analysed in the frame of Project VeSElKA (Vertical Stratification of Element Abundances) to search for vertical stratification of element abundances in their stellar atmospheres. These stars show signatures of a slow axial rotation and most probably possess hydrodynamically stable stellar atmospheres, where the atomic diffusion mechanism can cause abundance accumulation or depreciation of particular chemical elements at the certain atmospheric depths. With the help of the ZEEMAN2 code, we were able to determine average abundance of analysed chemical species and to detect in both studied stars an increase of phosphorus abundance towards the upper atmospheric layers. The strong overabundances of Mn derived in the stellar atmospheres of HD53929 and HD63975 confirms that they are HgMn type stars.

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**Session Classification:** DASP Poster Session & Finals: Poster Competition & Mingle Session with Industrial Partners (6) /Employers| Session d'affiches DPAA et finales: Concours d'affiches et rencontres avec partenaires industriels et employeurs (6)

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