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What's special about the ARIEL HRS?

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High resolution separators have a reputation as being unstable and difficult to tune. The ARIEL HRS has been designed to overcome these difficult characteristics. To do this, it has two unique features. (1) The matching system into and out of the HRS acts as both a matcher and a dispersion-magnifier. (2) The aberration correction is not performed using a conventional multipole. Instead, the correction element is a flat arrangement of electrodes that are programmed according to the correction function rather than a multipole-at-a-time approach.

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