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FIESTA: new technique to parametrize stellar variability

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We've been developping a new technique - FourIer *phase* SpecTrum Analysis (ESTA or FIESTA) - that studies the spectral line profile variability in the Fourier space. It enables us to distinguish a line deformation from a line shift and provides the possibility to correct jitter. I will briefly lay out the theories and demonstrate its application in two example stars: (1) HD189733: Rossiter-McLaughlin effect as jitter; (2) α Centauri B.

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