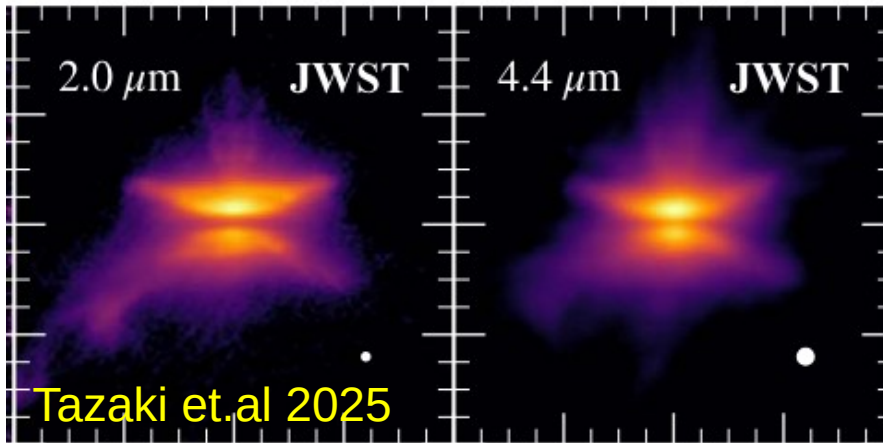


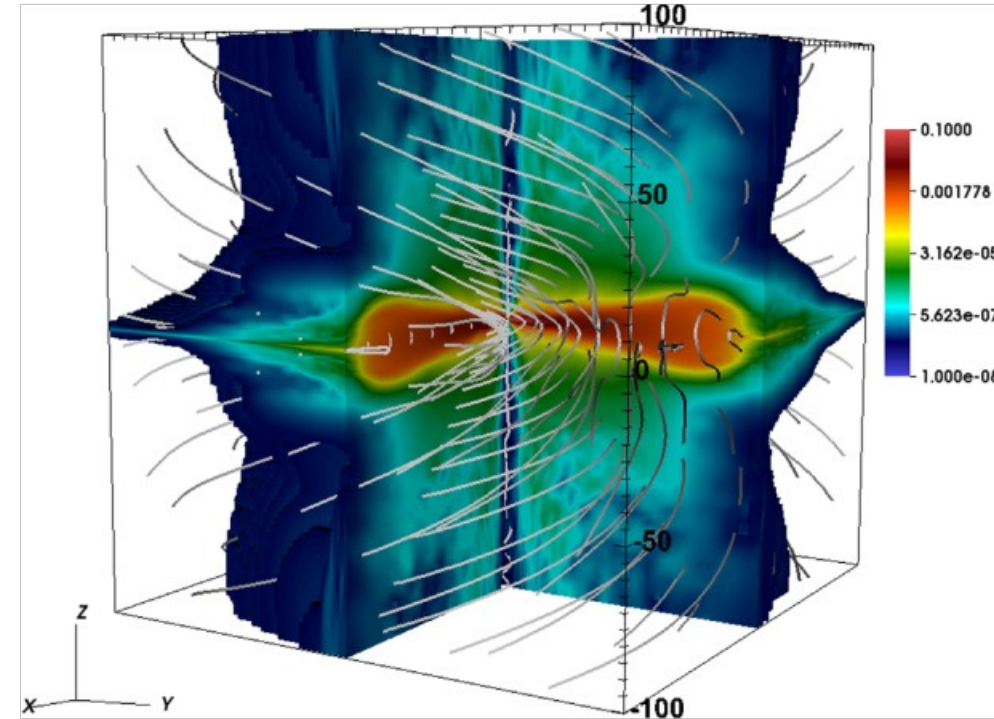
HH 30 Jet-disk

NIRSpec IFU Spectroscopy



Somayeh Sheikhnezami
Institute for advanced studies in basic science
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MHD disk-wind simulation



Sheikhnezami & Fendt et.al 2015 APJ



Class I/II Jets with JWST: Mass-loss Rates, Asymmetries, and Binary-induced Wiggings

Naman S. Bajaj¹ , Ilaria Pascucci¹ , Tracy L. Beck² , Suzan Edwards³ , Sylvie Cabrit^{4,5} , Joan R. Najita⁶ ,
Kamber Schwarz⁷ , Dmitry Semenov^{7,8} , Colette Salyk⁹ , Uma Gorti^{10,11} , Sean D. Brittain¹² , Sebastiaan Krijt¹³ ,
Maxime Ruaud¹⁰ , and James Muzerolle Page¹⁴

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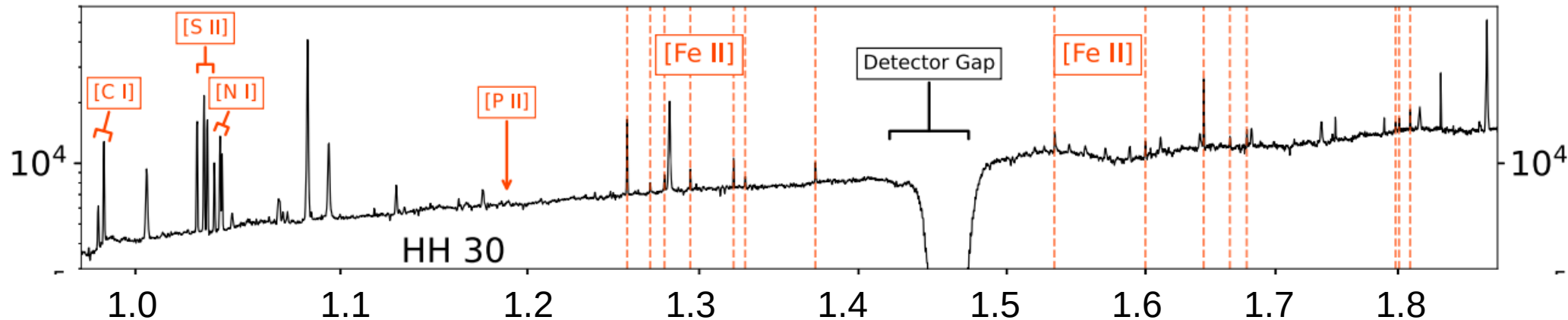
² The Space Telescope Science Institute, 3700 San Martin Drive, Baltimore, MD 21218, USA

³ Five College Astronomy Department, Smith College, Northampton, MA, USA

⁴ Observatoire de Paris - PSL University, Sorbonne Université, LERMA, CNRS, Paris, France

⁵ Univ. Grenoble Alpes, CNRS, IPAG, Grenoble, France

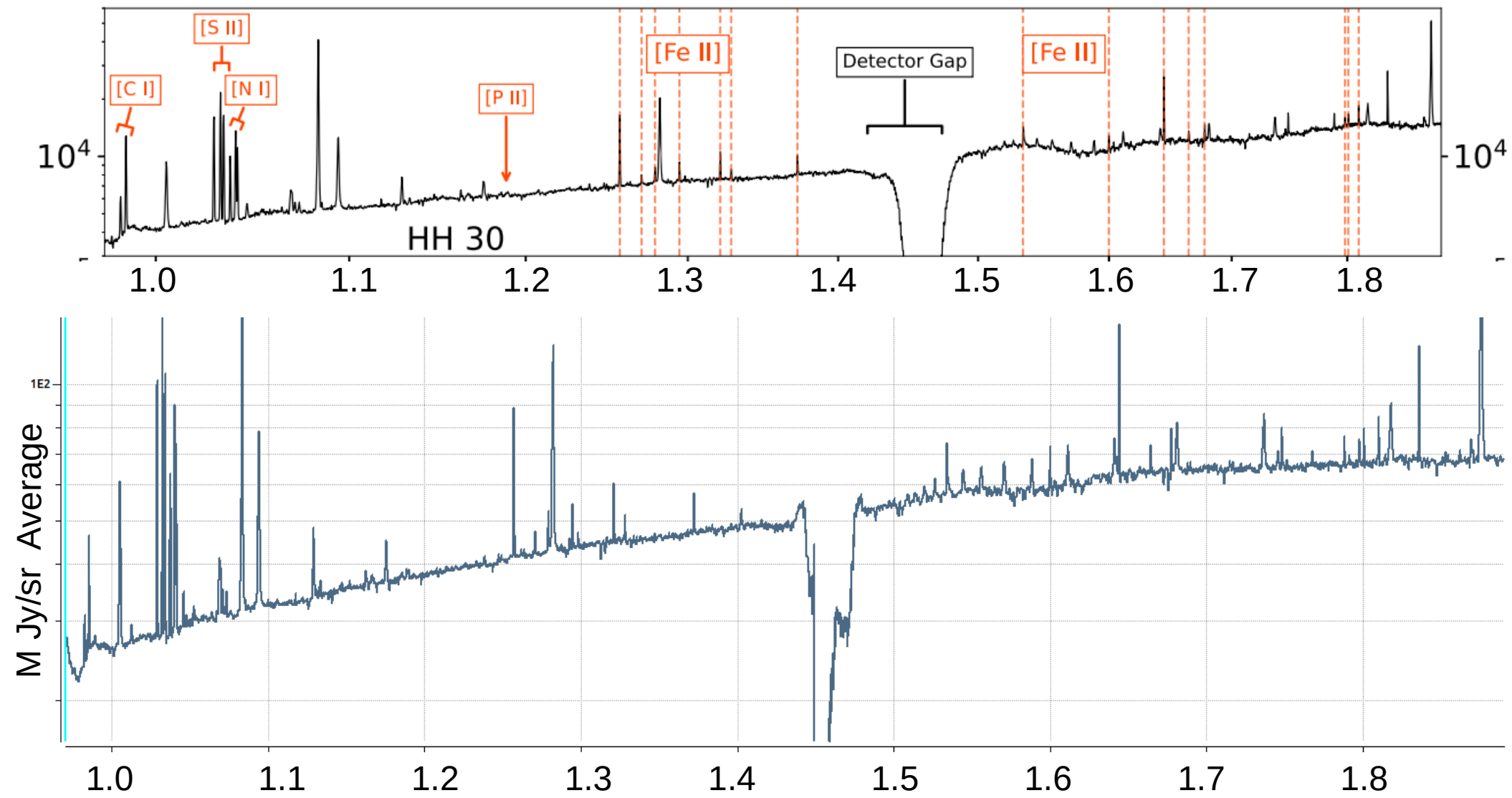
HH30: An edge-on proto-planetary disks that exhibit clear signatures of MHD disk winds

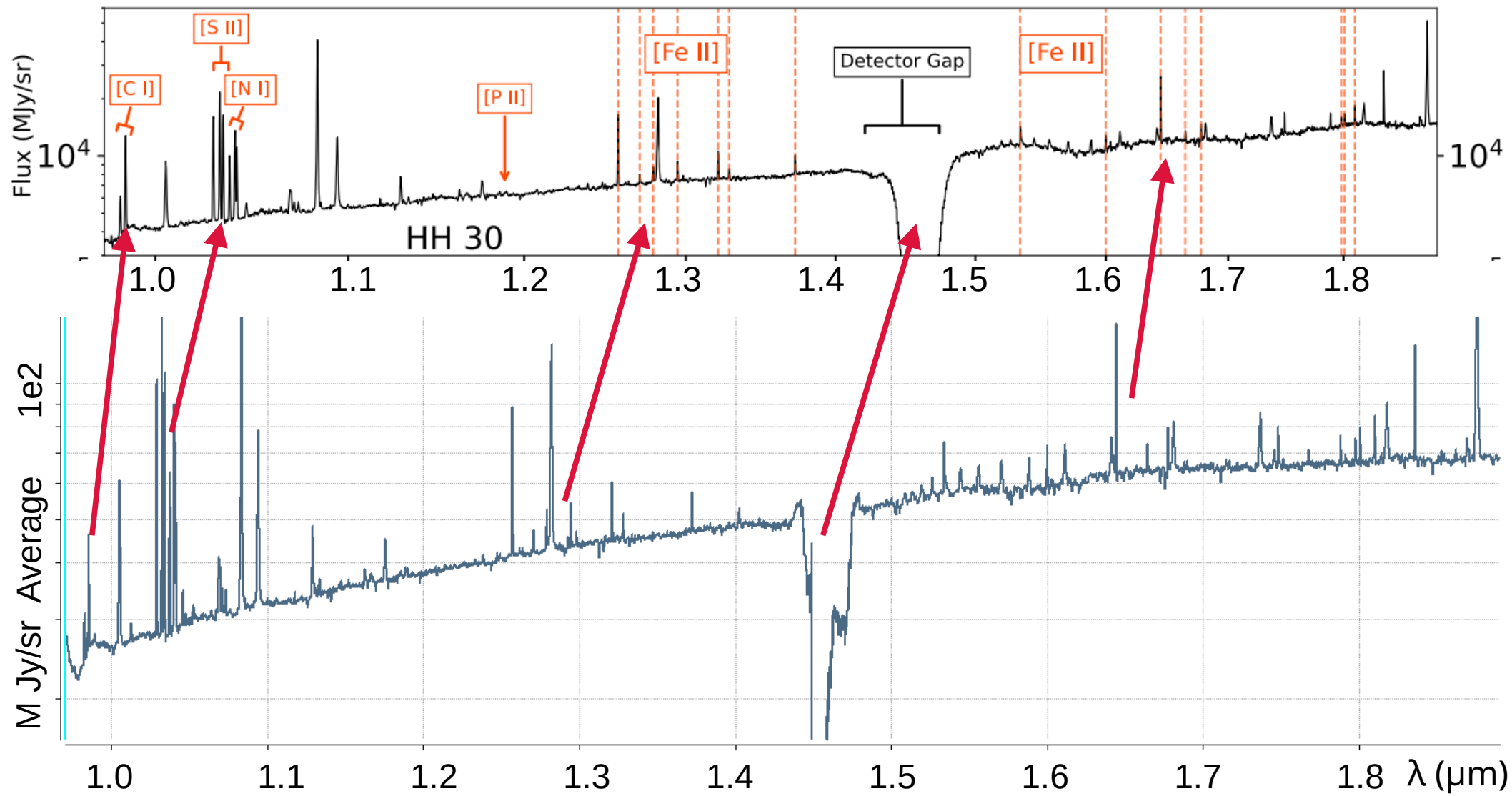


HH 30 Jet-disk

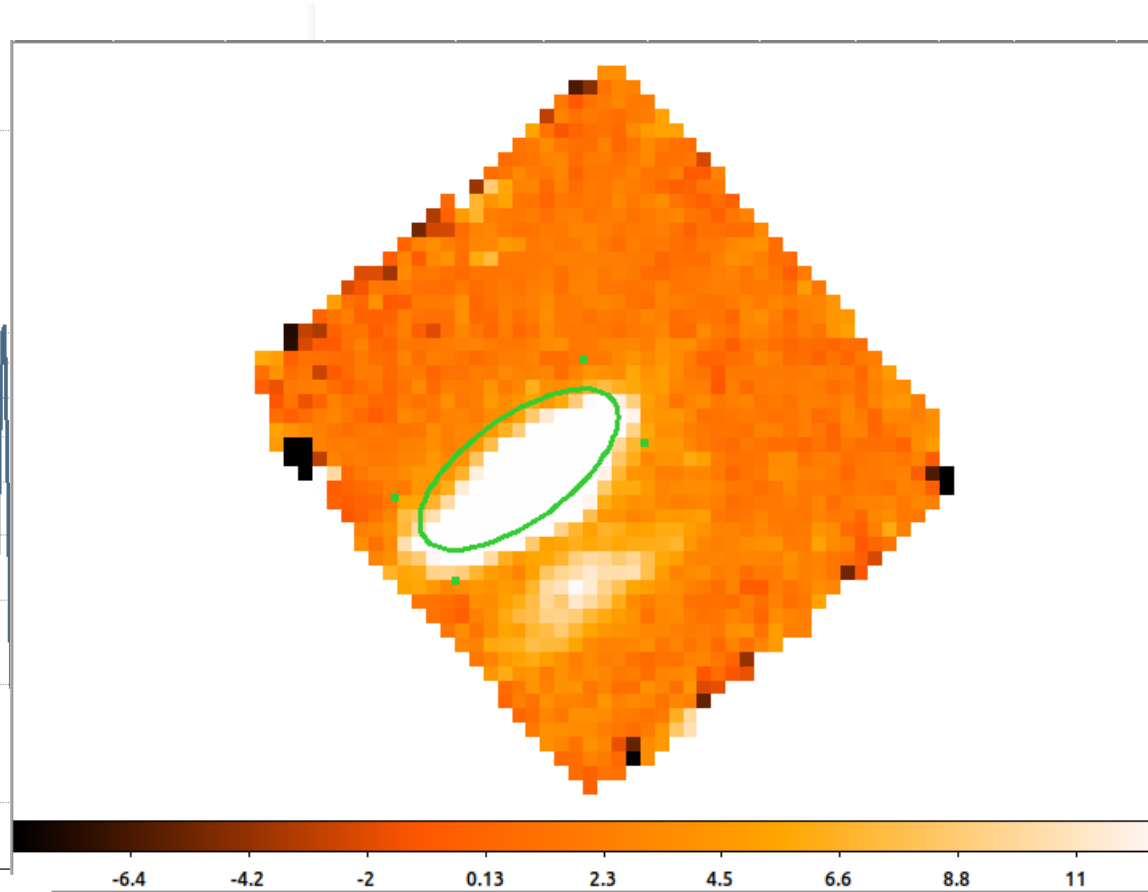
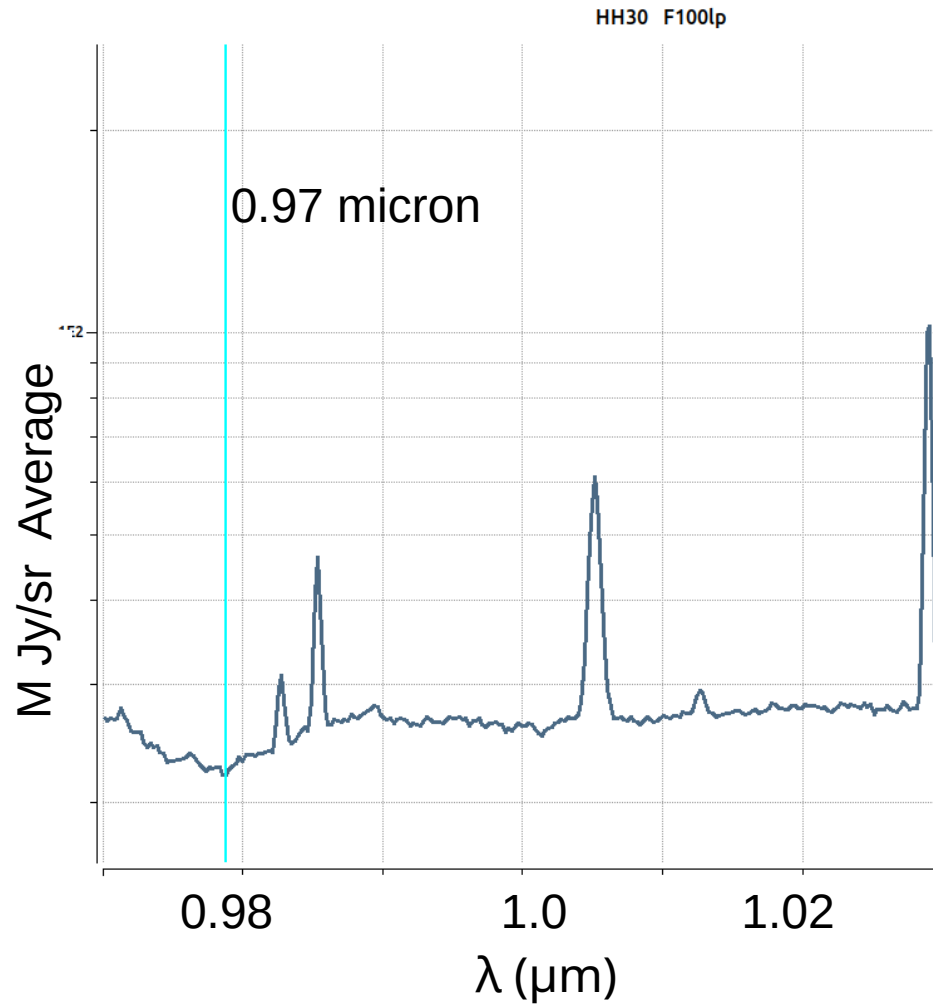
NIRSpec IFU Spectroscopy

- G140H/F100LP: High-resolution grating, short wavelength ($\approx 1.0\text{--}1.8\text{ }\mu\text{m}$)
- G235H/F170LP: High-resolution, mid-range ($\approx 1.7\text{--}3.1\text{ }\mu\text{m}$)
- G395H/F290LP: High-resolution, long wavelength ($\approx 2.9\text{--}5.3\text{ }\mu\text{m}$)

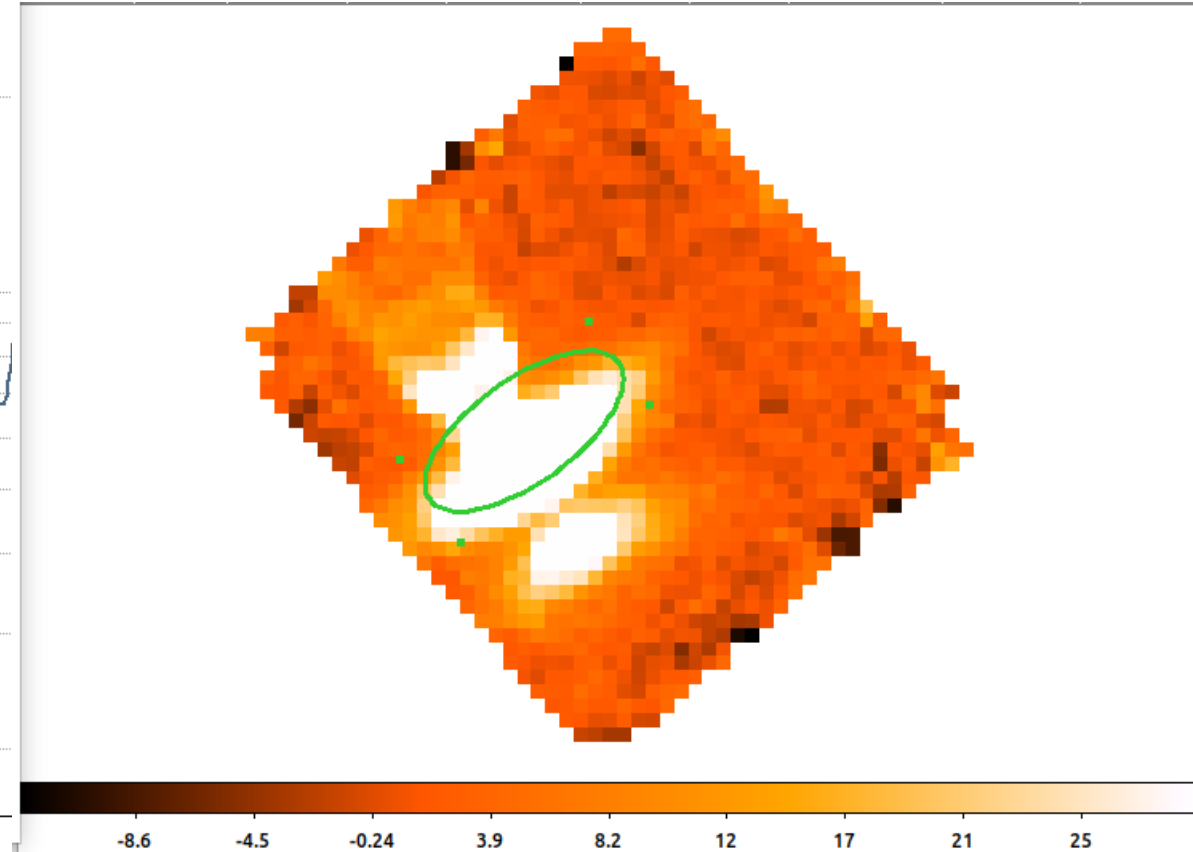
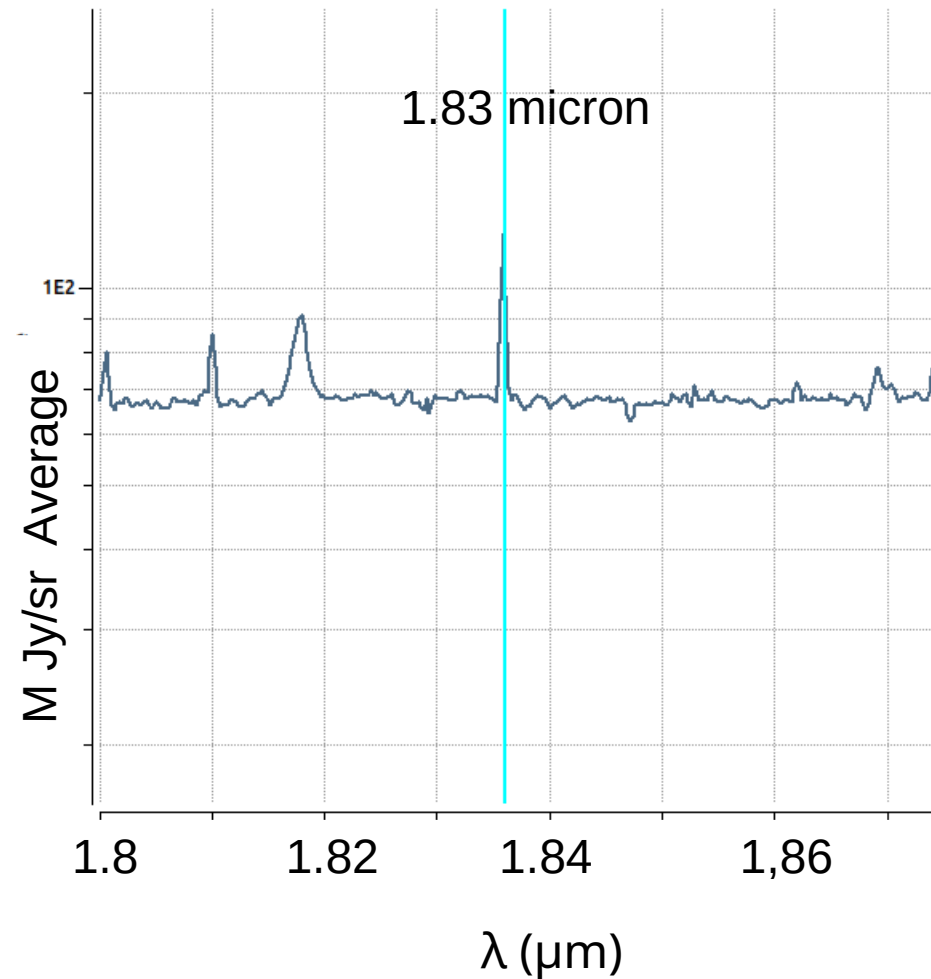




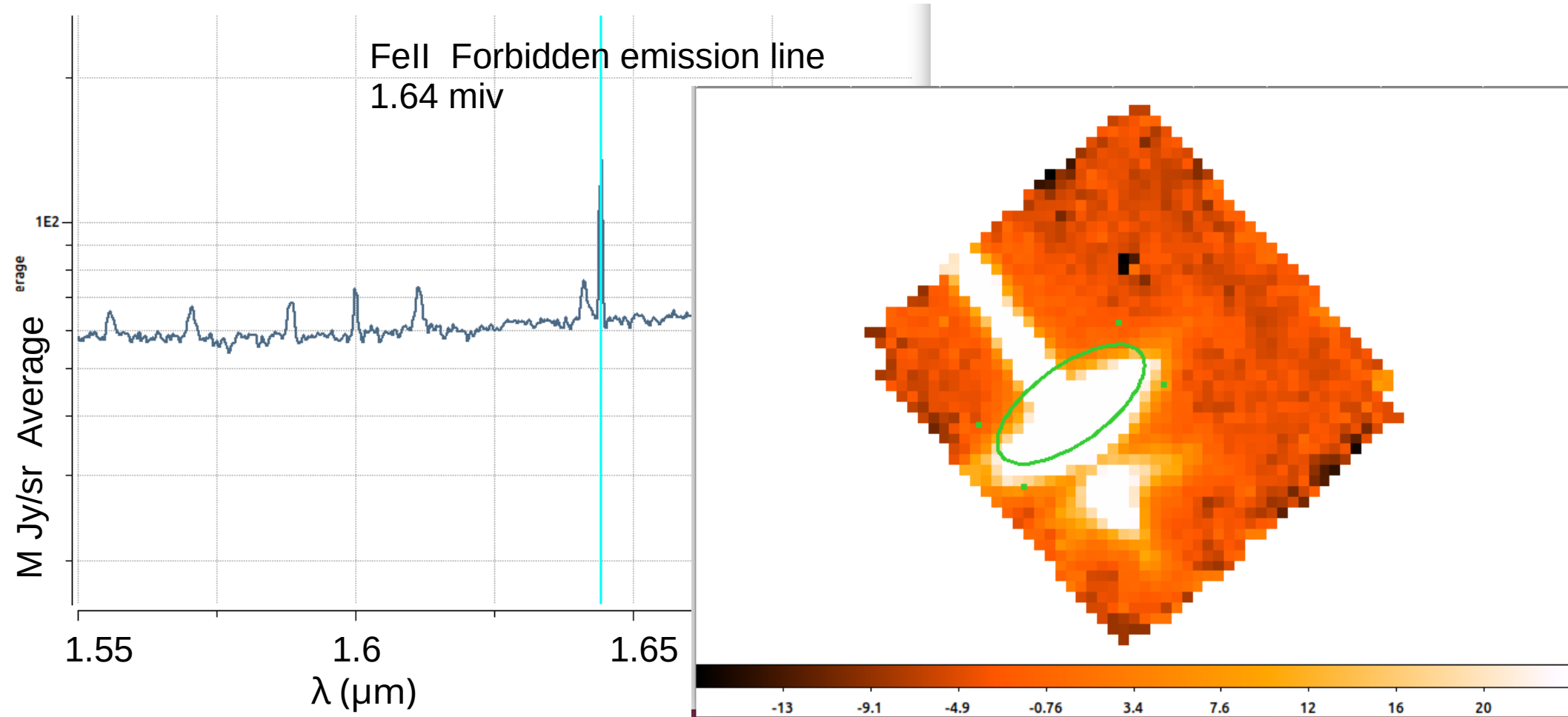
HH30: An edge-on protoplanetary disks that exhibit clear signatures of MHD disk winds



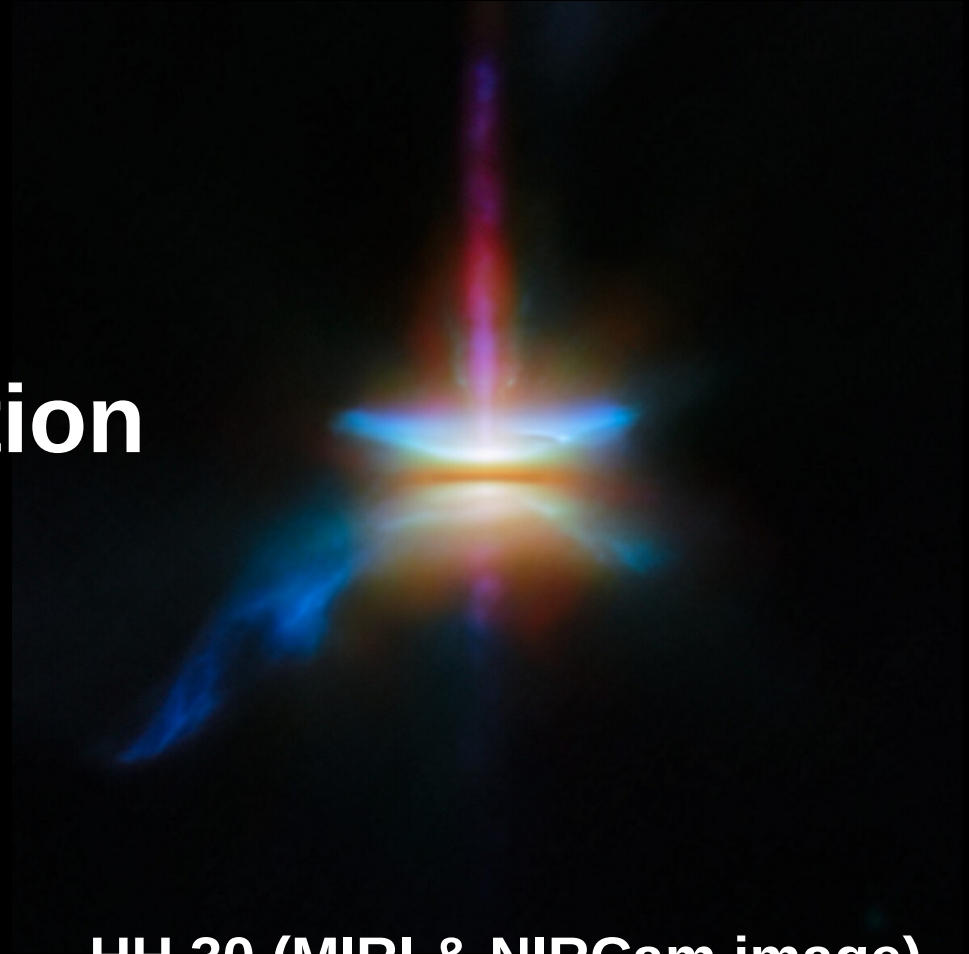
HH30: An edge-on protoplanetary disks that exhibit clear signatures of MHD disk winds



HH30: An edge-on protoplanetary disks that exhibit clear signatures of MHD disk winds



Thanks For your Attention



HH 30 (MIRI & NIRCams image)