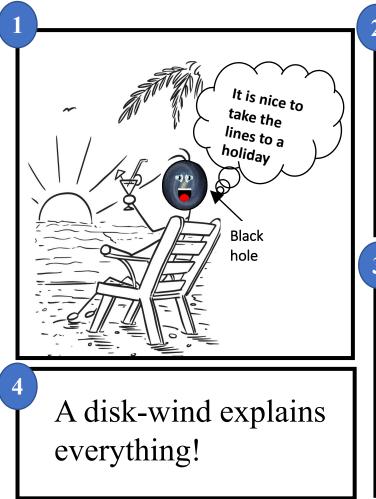
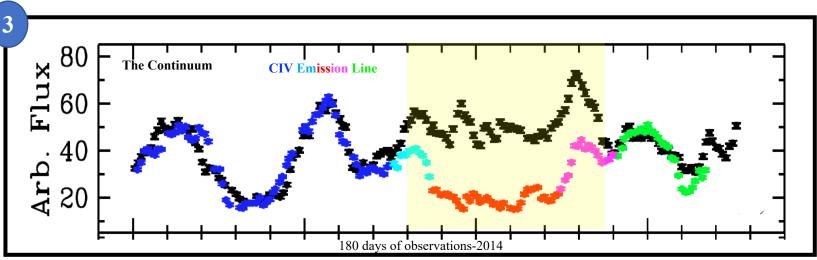


## Paradox in pan-spectral observations of NGC5548

Maryam Dehghanian

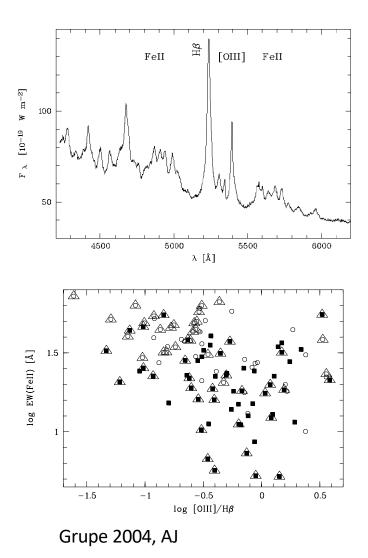


- A decorrelation between the emission/absorption lines and the continuum :The holiday
- Violates the basic assumption for BH mass estimations
- Why? How?

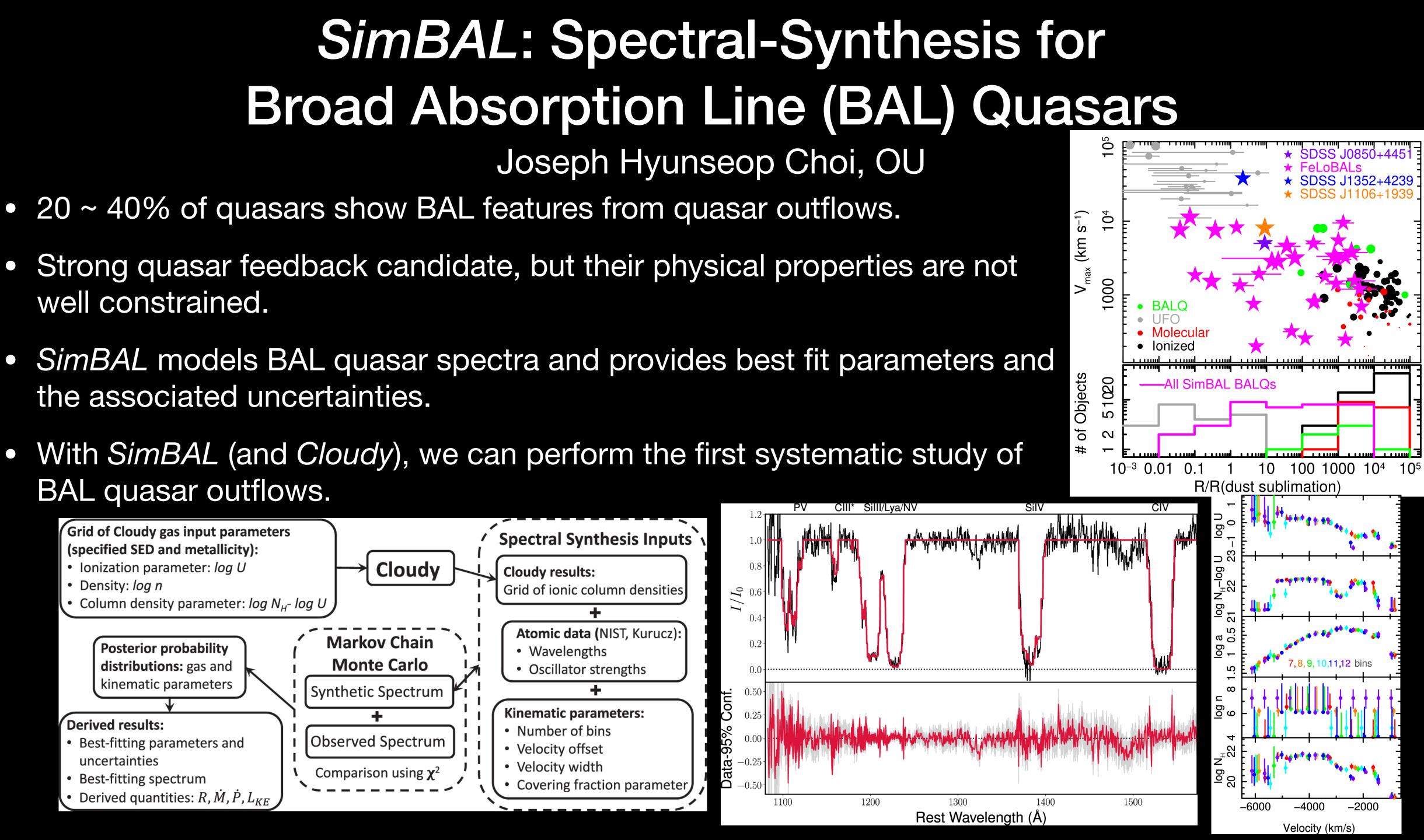


### Narrow Line Seyfert 1 Galaxies by Dirk Grupe

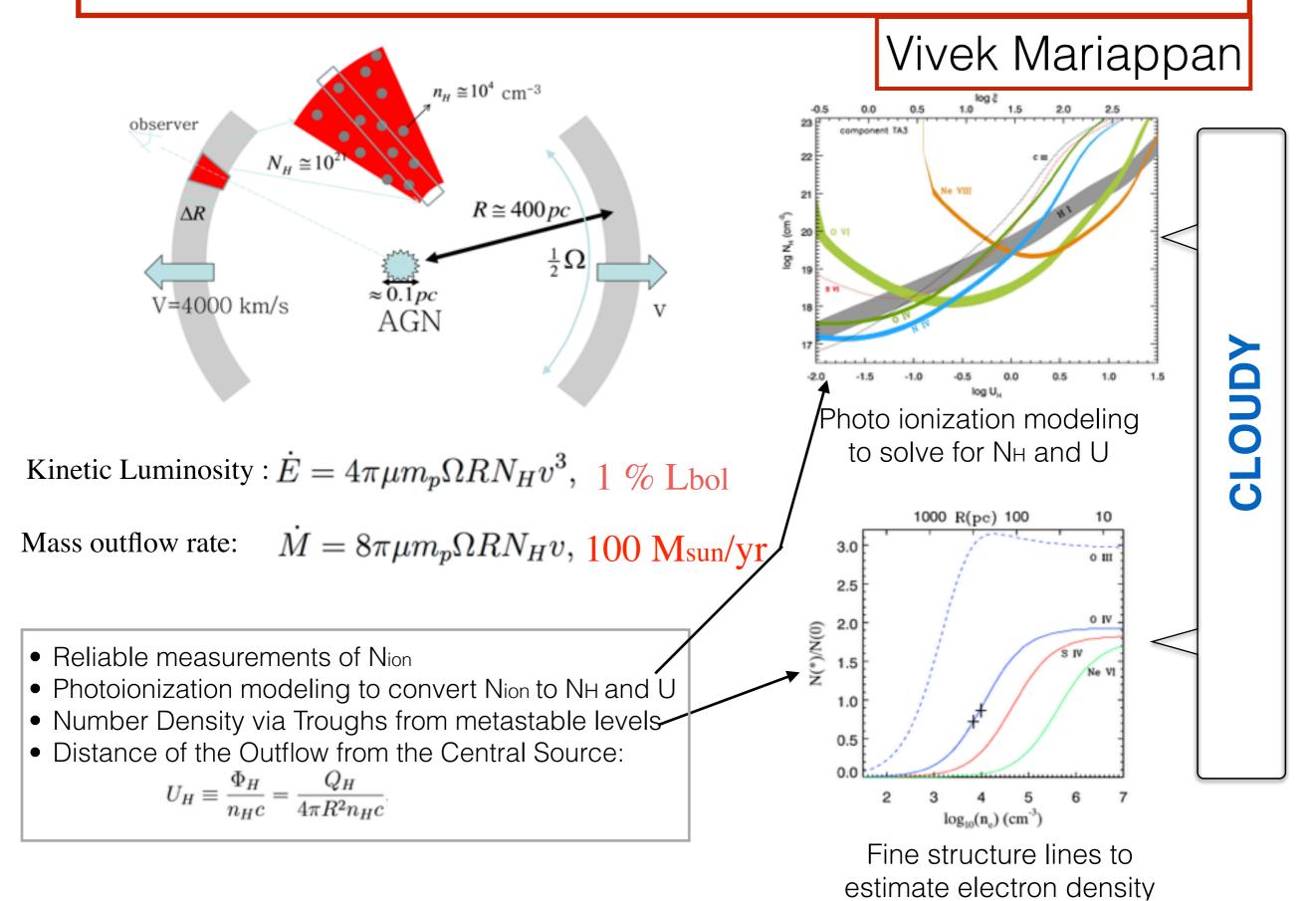
- NLS1s are AGN with low Black Hole masses and high L/L<sub>edd</sub>
- Extreme X-ray variability and spectra
- Possibly AGN in an early stage
- On an extreme end of the Boroson & Green EV-1 relation (1992)
- Anti-correlation between optical Fell and [OIII] emission line strengths.
- Cloudy may help us to better understand the differences between NL and BL Seyfert 1s.
- For example: Starburst vs AGN component



- well constrained.
- the associated uncertainties.
- BAL quasar outflows.

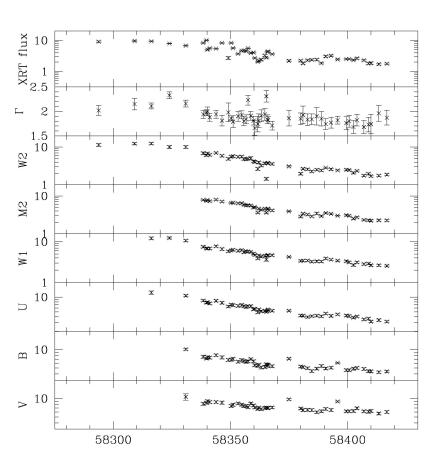


# AGN feedback from QSO absorption lines



## NGC 1566: A Tempermental Changing Look AGN

Becca Mikula



- 40 Mpc, located in Dorado group
- Triggered INTEGRAL in June 2018 with Swift follow up
- Continued monitoring campaign sees changes in AGN classification- broadening and narrowing of Hα and Hβ lines
- Flare showed jump of around 3 mag in Swift W2 band and X-ray
- On steady decline currently

