Outflow Kinematics and Dust in Reddened Type 1 Quasars at z~2 Matthew Temple\*, Manda Banerji, Paul Hewett, Liam Coatman Institute of Astronomy, University of Cambridge

## SUMMARY

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- [OIII] emission allows us to compare the kinematics of outflowing gas in high-luminosity reddened and unobscured quasars at redshift z~2
- Balmer lines allow us to compare the extinction of the continuum and the Broad Line Region in reddened quasars
- We find no evidence for a strong difference in the outflow properties of the reddened and unobscured samples
- In reddened quasars we find, on average, the Narrow Line Region is only partially obscured compared to the continuum extinction







 New observations with VLT-SINFONI H+K of 16 high-luminosity, heavily dust-obscured, spectroscopic type 1 quasars at 2.0 < z < 2.6, with spectral coverage of  $H\alpha$ ,  $H\beta$  and [Om]

• We fit the emission lines to derive robust measures of the velocity width and equivalent width (strength) of each line in each object

• Compare to a large sample of 219 unobscured quasars in the same dust-corrected bolometric luminosity range, with measured [OIII] line properties from Coatman et al.







**References:** Coatman et al., 2017, MNRAS, 465, 2120; Temple et al., in prep.

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