## Feedback from quasars: The prevalence and impact of radio jets

Miranda Jarvis<sup>1,2,3</sup>

<sup>1</sup>Max-Planck Institut für Astrophysik, Karl-Schwarzschild-Str. 1, 85748 Garching, Germany <sup>2</sup>European Southern Observatory, Karl-Schwarzschild-Str. 2, 85748 Garching, Germany <sup>3</sup>Ludwig Maximilian Universität, Professor-Huber-Platz 2, 80539 Munich, Germany

Abstract. I will present our ongoing multi-wavelength study on the prevalence and impact of radio jets in a sample of z < 0.2 type 2 'obscured' quasars who's high bolometric luminosities make them ideal local analogues of distant, more common, quasars. Despite being classified as 'radio quiet' (log L[1.4GHz] = 23.3 - 24.4 W/Hz), our high spatial resolution (~0.25") radio observations (VLA and eMERLIN) reveal jet like structures on 1–25kpc scales in ~80% of the sample. Our integral field spectroscopy reveals jet-ISM interaction and outflows in all cases. Our work suggests that radio jets are an important feedback mechanism even during a typical 'quasar' phase. Using ALMA and APEX we are now investigating the impact of these jets and outflows on the molecular, star forming, gas; looking for signs of depletion and excitation. Preliminary results suggest a depleted molecular gas supply in these sources. I will present all of these results, focused on our pilot study of 10 targets and then introduce our on-going work on an expanded sample of 42 low-redshift quasars. Our latest results come from MUSE/AO and ALMA from which we are carefully characterising the properties of the ionised and molecular outflows at sub-kpc resolution.

Keywords. galaxies: active, active: quasars, active: relativistic jets

<sup>©</sup> The Author(s), 2021. Published by Cambridge University Press on behalf of International Astronomical Union