Deep Surveys and Source Counts

M. Rowan-Robinson Astrophysics Group, Blackett Laboratory, Imperial College, Prince Consort Rd, London SW72BW, United Kingdom *m.rrobinson@ic.ac.uk*

Models for source counts and background radiation from the submillimetre to the optical are reviewed and compared with source-count data from existing surveys. Predictions are presented for future far infared and submillimetre surveys with SIRTF, Astro-F, Planck and FIRST.