



Jets from Stars and Galactic Nuclei

By Kundt, Wolfgang

Book Condition: New. Publisher/Verlag: Springer, Berlin | Proceedings of a Workshop Held at Bad Honnef, Germany, 3-7 July 1995 | Jets are ubiquitous in the Universe, but ill-understood. Conservative books base their interpretations on focused stellar winds, ejected "bullets", black-hole central engines, and in-situ upgrading of electron energies via shocks. This volume, however, attempts a uniform interpretation of the bipolar-flow family, involving extremely relativistic pair plasma as the jet substance, and rotating magnets (possibly burning disks) as the central engines. Among the discussed sources are SS 433, YSO jets, planetary nebulae, our galactic center, and the class of extragalactic QSOs, both radio-loud and radio-quiet. | Jets from stars and burning disks.- Black hole, jet, and disk: The universal engine.- Simple sums on burning discs.- Coherent emission and intraday variability of active galactic nuclei.- Particle acceleration in extended radio sources-A critical review.- Plasma acceleration and jet formation by a magnetized rotator.- The astrophysical plasma gun.- Magnetized accretion-ejection structures.- Jet formation in astrophysical converging flows.- Observational properties of jets from young stars.- Near-infrared imaging in H₂ of molecular (CO) outflows from young stars.- The jets in SS 433.- The SS 433 system.- Southern hemisphere VLBI observations of GRO J1655-40.- Jets in planetary...



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