1. Record Nr. UNINA9910257418203321 Jets from stars and galactic nuclei: proceedings of a workshop held at **Titolo** Bad Honnef, Germany, 3-7 July 1995 / / Wolfgang Kundt, editor Pubbl/distr/stampa Berlin, Heidelberg:,: Springer,, [1996] ©1996 3-540-49953-9 **ISBN** [1st ed. 1996.] Edizione Descrizione fisica 1 online resource (IX, 294 p. 41 illus.) Collana Lecture Notes in Physics;; 471 Disciplina 523.8 Soggetti Astrophysical jets Stars Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Bibliographic Level Mode of Issuance: Monograph Note generali Jets from stars and burning disks -- Black hole, jet, and disk: The Nota di contenuto 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 nebulae -- Supermassive binaries and extragalactic jets -- Accretion and jet power -- Jets and QSO spectra -- An interpretation of radio-loud-radio-quiet QSO differences -- Jets in gamma-bright AGN: Constraints on reprocessing mechanisms --Spectral evolution along the jest of M 87 and 3C 273 -- X-ray observations of Cen A -- Superluminal sources -- The sub-parsecscale structure and evolution of the jet in centaurus A -- The central engine in the galactic nucleus -- Our galactic center -- The missing Xrays in SGR A\*: Evidence for a supermassive black hole in the galactic

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emission.

## Sommario/riassunto

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.