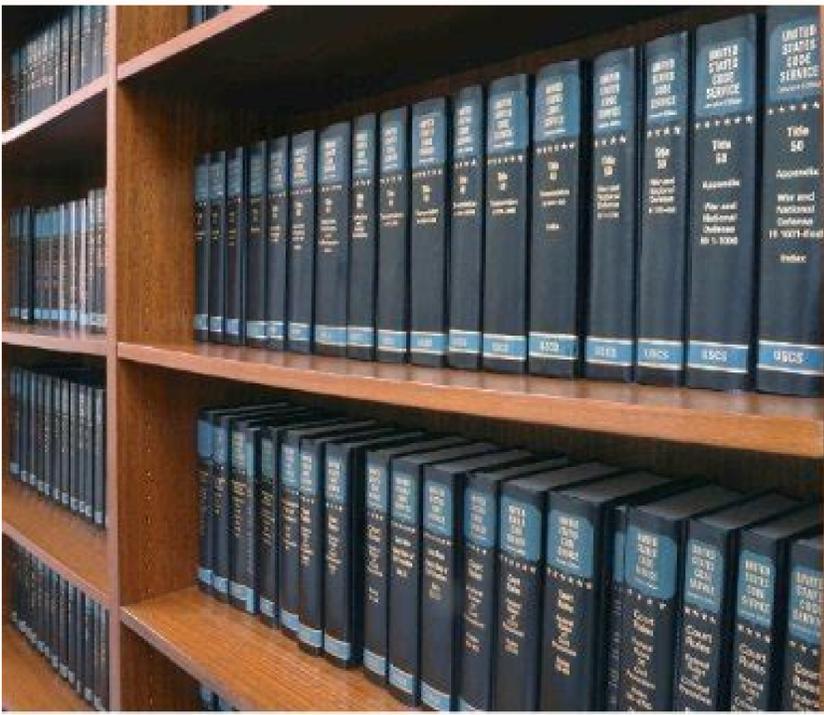


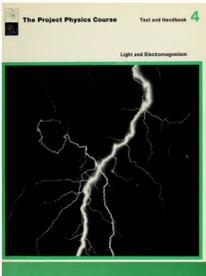
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EL LIBRO AMARILLO DE LOS ESTADOS UNIDOS DE VENEZUELA PRESENTADO AL CONGRESO NACIONAL

VENEZUELA. MINISTERIO DE RELACIONES EXTERIORES



THE COMPLETE GUIDE TO STANDARD SCRIPT FORMATS

**PART II:
TAPED FORMATS
FOR TELEVISION**
by
JUDITH H. HAAG

All the XRBs found in the data sets had main-sequence stars of less than 10 M_⊙ and so can be in general, models of jets are based on the jet-disc symbiosis ansatz laid out in Falcke & Biermann (1995). Furthermore, the average outburst duration (months to years) is still somewhat comparable to the total on-time of 19 yr, which makes rigorous statistical statements difficult. The origin of cosmic rays (CRs), high-energy particles from beyond the Solar system, is a century-old puzzle (Ginzburg & Syrovatskii 1964; Berezhinsky et al. 5.2 Neutrinos Neutrinos are also produced through CR interactions with protons or photons, and XRB jets have long been predicted as a sources of neutrinos (Levinson & Waxman 2001; Distefano et al. The γ -ray flux is integrated over the region of interest defined in figs 1 and 3 of HESS Collaboration (2016), the HESS data are shown as red triangles. Hailey et al. As discussed earlier, HM companions are rarer and live shorter lives, and likely make up a minority of BH-XRB systems. Of the transient systems, we find mean and median number of days spent in the hard state of 183 and 66 d, respectively (see Fig. Protons/ions present in the jets will also undergo shock acceleration and in fact would attain much higher energies than electrons due their lower cooling efficiency compared to leptonic counterparts. We note that $U(z)$ is very similar for the isothermal and quasi-isothermal models, as only the dependence on the radius is different. (2016a), in which the authors catalogued X-ray observations of all known BH-XRBs over the last 19 yr. In light of increasingly detailed multiwavelength studies of many more XRB jets (Corral-Santana et al. Therefore, BHs, which generally require more massive progenitors, are less common than NSs. Thus, we expect many more NS-XRBs than BH-XRBs, as well as more systems with LM companions than HM companions. Czech., eds, AIP Conf. 2017), for different values of the initial aspect ratio, $\{r_0\}/(z_0 \beta)$, and β of the jet. Radiative losses dominate near the BH, as the high magnetic field strength close to the base of the jet results in large synchrotron losses. Cosm. A key difference here is that we include self-collimation, and so the radius of the jet as a function of jet height z is given by equation (11). Such γ -ray flux clearly saturates the γ -ray emission reported by the HESS Collaboration (see Fig. 3); thus, we confirm the analytical order-of-magnitude estimate for the upper limit on the power injected in CRs at the GC from an XRB population. 2013) suggest that protons are efficiently accelerated at these sources, it is not clear whether SNRs can universally attain the crucial PeV energies required to explain the softening at the knee (see e.g. the recent discussion in Gabici, Gaggero & Zandanel 2016; Ahnen et al. (ICRC 2019), Pierre Auger Collaboration, Bull. This means that $\{T_{\text{mathrm}}\}$ $\propto n^{\gamma} (\Gamma_{\text{adi}} - 1) \beta$. If this population of BH-XRBs is similar to the broader Galactic population in their potential to accelerate CRs, we expect to see γ -ray signatures of this in the region. The maximum energy CR energy as a function of jet height can be seen in Fig. Most pertinent for our study, we find the number of days each system has spent in the hard, compact jet state, which is invaluable to constrain the hard state duty cycle. Such a contribution would make up a significant fraction of the CRs in the energy range between second knee and ankle, where the role of a second Galactic component is currently under debate. The maximum energy of XRB-CR is relatively high compared to other Galactic sources of CRs, with models suggesting protons could be accelerated to 1016–1017 eV in some systems. 1990; Blasi 2013). 2017) and gammasky. Using these codes, we are able to propagate CRs from any given source distribution and, adopting detailed models for the gas and interstellar radiation in the Galaxy, compute the γ -ray/neutrino flux associated with the CR population under consideration. The observation of diffuse γ -ray emission in a region can therefore tell us about the density of both the ambient medium and high-energy CRs in that region. Astron. 2006; Plotkin et al. We set a hard injection spectrum described by a single power law $Q = Q_0(E/E_0)^{-\alpha}$, with $\alpha = 2.2$ and $E_{\text{min}} = 1$ GeV, and let the particles propagate through the CMZ and diffuse out of the Galaxy. After the equilibrium distribution of CRs is obtained, we compute the hadronic γ -ray flux from the Galactic ridge region with the gammasky code, adopting the same model for the gas distribution in the CMZ as in Gaggero et al. 2006) that may accelerate CRs. 3.1 Constraints from Galactic Centre observations Galactic CRs propagate from their sources interacting with interstellar gas to produce γ -rays and neutrinos. (2018) population are the only sources of CRs that contribute to the X-ray illumination. GeV CR protons/ions bombarding giant molecular clouds produce X-ray emission through collisional ionization and bremsstrahlung. This means that U_{p} $\propto n$, and energy is not conserved. This is to say that accelerated CRs must stay confined within the accelerating medium in order to undergo re-acceleration, which we can quantify using the Larmor radius. We are yet to firmly identify classes of astrophysical sources able to accelerate hadronic cosmic particles up to extremely high energies, much larger than those accessible by terrestrial accelerators. Spectral features in the locally observed all-particle CR spectrum can shed light on this mystery. We set up the dragon code to inject CRs with a Gaussian source term centred on the GC with a 1 pc width, consistent with the Hailey et al. It directly influences the extent to which high-energy CRs can be confined, resulting in further acceleration. The conservative upper limit on this quantity is $\{L_{\text{CR}}\} \lesssim 10^6 \{38\} \text{ erg} \text{ yr}^{-1} \text{ Mpc}^{-3} \text{ s}^{-1}$. For the isothermal and adiabatic jet models, we use a simple conical jet model in which $\{r_{\text{cone}}(z) = r_0 + (z - z_0) \sin(\theta_{\text{jet}})\}$. The former relies on understanding the population and energetics of typical systems. The Euler equation, however, includes an additional factor: $\{ \xi = \frac{1}{\Gamma_{\text{adi}}} \frac{\partial}{\partial z} (\Gamma_{\text{adi}} \beta) \}$. For more on the jet models, please see Appendix A. Future Sgr B2 X-ray observations will put a tighter constraints on the required CR proton power in the CMZ. 2009), and recently SS 433, which was resolved in the TeV range (HAWC Collaboration 2018; Sudoh, Inoue & Khangulyan 2020). 2). 2014; Zdziarski et al. (2015). As the magnetic field strength depends strongly upon the internal energy density of the jet, U_{p} , the maximum CR energy increases significantly for higher jet powers. Here, we give a quick overview of each jet model, and show how the maximum CR energy depends on the jet model. (2005). For each of these systems, we looked up the binary separation, a , and approximated the radius of the main-sequence star from its mass. Using this, we extrapolate to find an allowed high-energy XRB-CR power due to the Hailey et al. We adopt the method used in Fender et al. Comparing the expected emission from CR-accelerating XRBs in the GC to the observed emission, we can constrain the CR power of these systems, and thus by extrapolation gain an additional constraint on the Galactic population as a whole. The dashed green line represents the upper limit of the allowed XRB-CR power as discussed in Section 3, using the upper parameters in Table 1. 2016), we can probe PeV energy ranges in order to verify whether there are two clear populations of high-energy CR sources within our Galaxy. 2014). Although leptonic processes such as inverse Compton scattering might be the dominant mechanism for such high-energy emission, hadronic particles may also significantly contribute. We focus on the energy budget available for CR acceleration in all Galactic XRB jets and the maximum energy these XRB-CRs could attain, as these are the crucial inputs to determine a potential CR contribution. Taking the mean and median number of days divided by the total time in which the data were collected (19 yr) as the duty cycle of these systems, we compute hard state duty cycles of 2.6 and 1.0 per cent, respectively. 2019), and diffuse Galactic searches could provide indeed a novel approach towards identifying a second source of Galactic CRs. Neutrino observations probe higher energies than γ -ray facilities and therefore high-energy breaks in the diffuse Galactic neutrino spectra (Aartsen et al. 4.1 Jet model We calculate the maximum energy of accelerated protons for the three different dynamical jet models (isothermal, adiabatic, and quasi-isothermal agnjet variant) outlined in Crumley et al. Open in new tabDownload slide- γ -ray spectral energy distribution associated with the population of CRs accelerated by XRBs located at the GC. 2018). This factor is the average amount of time a BH-XRB spends in the hard state, the state in which we expect steady, compact jets that efficiently accelerate particles. To estimate δt , we utilized the data collected in Tetarenko et al. It is important to note that although almost 25 per cent of all BH-XRBs seem to be persistent accretors with HM companions, this is likely inflated due to observational bias due to their persistent and thus more reliably detected emission. (2016), a novel data set based on 150 d of radio observations of CR-induced extensive air showers made with the Low-Frequency Array implies a significant high-mass component in the 1017–1017.5 eV range. Taking this additional component into account, as discussed in Hillas (2005) and Gaisser, Stanev & Tilav (2013), it is possible to provide a complete and consistent description of all the features from the knee to the ankle. 5 MULTIMESSENGER TESTS OF THE XRB-CR SCENARIO Any source class contribution to the CR spectrum can only be directly probed by CR observatories if those sources dominate the spectrum at specific energies. Therefore, we suggest point source γ -ray observations of the most powerful XRB jets will pave the way for identifying CRs from XRBs through traditional electromagnetic observations. 2019), the A -parameter normalization estimated by Fender et al.

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