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1  #*****
2  #Parameter file for SPINNAKER
3  #*****
4  #Setup of the 2-dimensional grid
5  #-----
6  grid_size = 200#<=400; Number of grip points in z
7  nu_channel = 400#<=400; Number of grid points in frequency
8  grid_delta = 10#Every x_th grid point is written to output file
9  z_halo = 8.#Halo size [kpc]
10 first_data_point_at_0kpc = -1#First data point at z=0 kpc? 1:yes -1: no
11 normalize_intensities = -1#At z=0, I(nu_i)=1, 1:yes -1: no
12 #-----
13 #Output
14 #-----
15 nu_1 = 1.37e9# [Hz]
16 nu_2 = 4.86e9# [Hz]
17 nu_3 = 6.20e9# [Hz]
18 nu_4 = 8.40e9# [Hz]
19 mode = 1#Advection: 1; Diffusion: 2
20 epsilon = -1#1:write emissivities instead of intensities (only if model=1)
21 #-----
22 #Setup of the advection and diffusion model
23 #-----
24 gamma_in = 2.7#Injection CRe index
25 rad_field = 0.1#Radiation energy density = U_IRF/U_B
26 V0 = 300.0e5#Advection speed [cm s^-1]
27 velocity_field = 0#0: constant, -1: power-law, 1: exponential
28 h_V = 1.#[kpc], V = V0*exp(-z/h_V) or V = V0 *(R0/1kpc + z/h_V)^beta
29 adiabatic_losses = -1#Yes: 1, No: -1 (only for advection)
30 D0 = 2.0e28#Diffusion coefficient [cm^2 s^-1]
31 mu_diff = 0.5#Energy dependence D=D0*E^mu_diff
32 #-----
33 #Magnetic field setup
34 #-----
35 galaxy_mode = 1#1: thin and thick disc, -1: piece-wise exponential
36 z1 = 10.0#if galaxy_mode=-1, transition from zone 1 to zone 2 [kpc]
37 B0 = 13.5e-6#Magnetic field strength [G], 1mikroGauss=1.0e-10Tesla
38 B1 = 8.6e-6#Magnetic field strength [G], 1mikroGauss=1.0e-10Tesla
39 h_B1 = 0.6#Scaleheight of the B-field in zone 1 [kpc]
40 h_B2 = 5.0#Scaleheight of the B-field in zone 2 [kpc]
41 #-----
42 #Use a magnetic field model (needs edit of the source files)
43 #-----
44 model = -1#-1: no model, 1: model (which needs edit of the source files)
45 initialize_model = -1#Initialize magnetic field model
46 model_north = 1#Use northern part of the model
47 update_model = -1#Rescale magnetic field model
48 xi = 3.65#Model normalization
49 beta = -0.75#Power-law index for the velocity, V = V0 * (R/R0)^-beta
50 R0 = 1.04e22#Jet radius at the base [cm]
51 #EOF*****

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