Description of the file name extensions with typical simulation input data or results submitted to the repository

name.input – files with the input data used to run a THEA simulations

name.out – files with some THEA simulations results (the helium temperature, mass flow rate, pressure and velocity at the conductor inlet vs. time, as well as current and resistance vs. time)

name_T_time.out – files with some simulations results (the helium temperature, mass flow rate, pressure and velocity as well as the strands and jacket temperatures at the locations of all temperature sensors vs. time)

Description of the file names and the respective model, model parameters and figure number in the manuscript

File name	model	Copper RRR	h (W/(m²K)	Figure No.
0001	reference	40	500	7
0001M	reference	40	4000	8
0001B	reference	40	6000	9
0413P	extended	100	4000	14
0413T	extended	60	7000	15