

Appendix A

ADAS data formats

The various permanent data sets in ADAS fall into a number of categories with precisely defined organisation and formatting. The specifications of these are called 'ADAS data formats' or ADF's for short. They are as follows:

ADF01	bundle-n & bundle-nl charge exchange cross-sections
ADF02	ion impact cross-sections with named participant
ADF03	approximate form parameters for elements
ADF04	resolved specific ion data collections
ADF05	general z excitation data
ADF06	general z recombination/ionisation data
ADF07	direct resolved electron impact ionisation coefficients

ADF08	direct resolved radiative recombination coefficients
ADF09	direct resolved dielectronic recombination coefficients
ADF10	isoelectronic master files
ADF11	isonuclear master files
ADF12	charge exchange effective emission coefficients
ADF13	ionisation per photon coefficients
ADF14	thermal charge exchange coefficients
ADF15	photon emissivity coefficients
ADF16	generalised contribution functions
ADF17	condensed projection coefficients
ADF18	cross-referencing data
ADF19	zero density radiative power coefficients
ADF20	G(Te) functions
ADF21	effective beam stopping coefficients
ADF22	effective beam emission coefficients
ADF23	state selective electron impact ionisation coefficients
ADF24	state selective charge transfer cross-sections
ADF25	driver datasets for ADAS204 calculation
ADF26	neutral beam hydrogen bundle-n and helium bundle-nl population structure
ADF27	driver datasets for ADAS701 (AUTOSTRUCTURE) calculations.
ADF28	driver datasets for ADAS702 and ADAS703 dielectronic recombination post-processing.

