



Status report on ISHPDB administration

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on behalf of all database contributors

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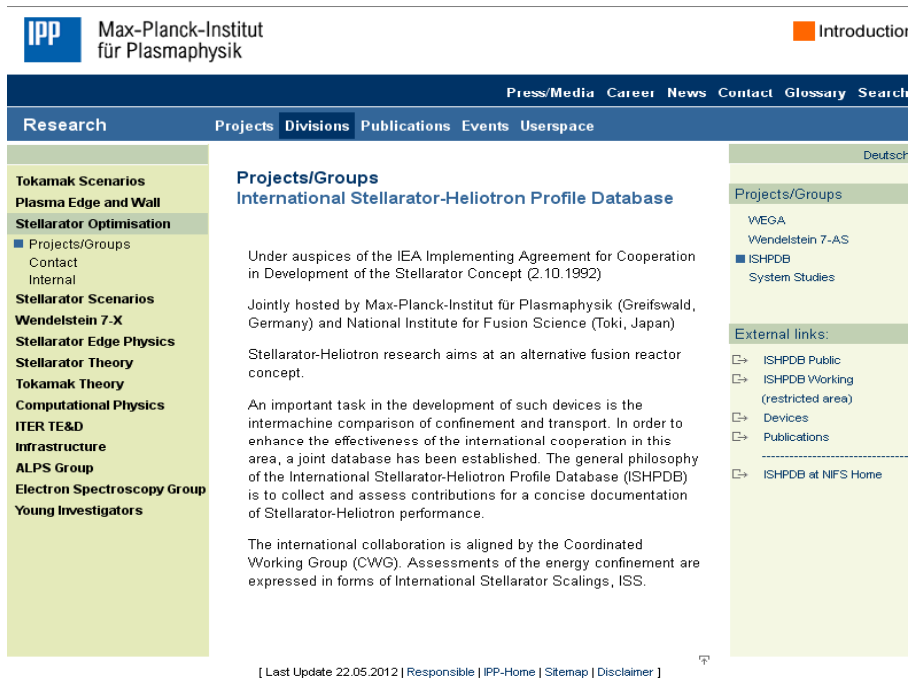
CWGM 11, CIEMAT, Madrid, 11- 13 March 2013

IPP entry

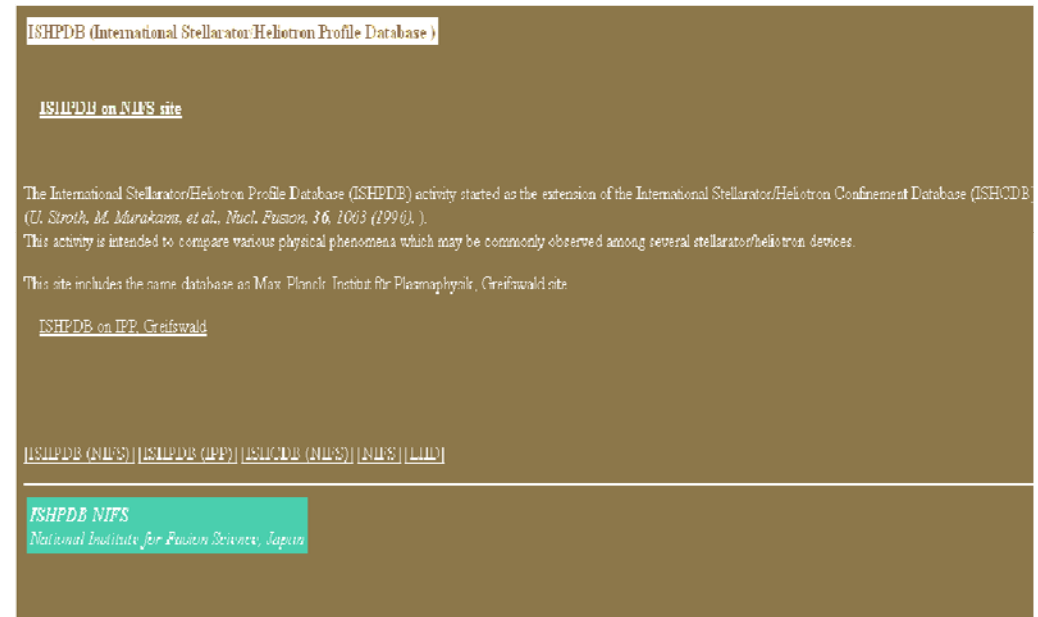
<http://www.ipp.mpg.de/ISHPDB>

NIFS entry

<http://ishpdb.nifs.ac.jp>



The screenshot shows the IPP website interface. At the top left is the IPP logo and the text 'Max-Planck-Institut für Plasmaphysik'. A navigation bar includes 'Introduction', 'Research', 'Projects', 'Divisions', 'Publications', 'Events', and 'Userspace'. The main content area is titled 'Projects/Groups International Stellarator-Heliotron Profile Database'. It contains several paragraphs of text describing the database's origin and purpose, mentioning the IEA Implementing Agreement and the Coordinated Working Group (CWG). A sidebar on the right lists 'Projects/Groups' including WEGA, Wendelstein 7-AS, ISHPDB, and System Studies. At the bottom, there are external links to ISHPDB Public, ISHPDB Working (restricted area), Devices, Publications, and ISHPDB at NIFS Home. A footer at the bottom left indicates the last update date and provides links for 'Responsible', 'IPP-Home', 'Sitemap', and 'Disclaimer'.



The screenshot shows the NIFS website interface for the ISHPDB. The title is 'ISHPDB (International Stellarator-Heliotron Profile Database)'. Below the title is a link to 'ISHPDB on NIFS site'. The main text describes the database's history, stating it started as an extension of the ISHCDB (U. Stroth, M. Murakami, et al., Nucl. Fusion, 36, 1063 (1996)). It mentions that the activity is intended to compare various physical phenomena across different stellarator/heliotron devices. A link to 'ISHPDB on IPP, Greifswald' is provided. At the bottom, there is a teal box with the text 'ISHPDB NIFS National Institute for Fusion Science, Japan'. A navigation bar at the top includes 'Introduction', 'Research', 'Projects', 'Divisions', 'Publications', 'Events', and 'Userspace'.

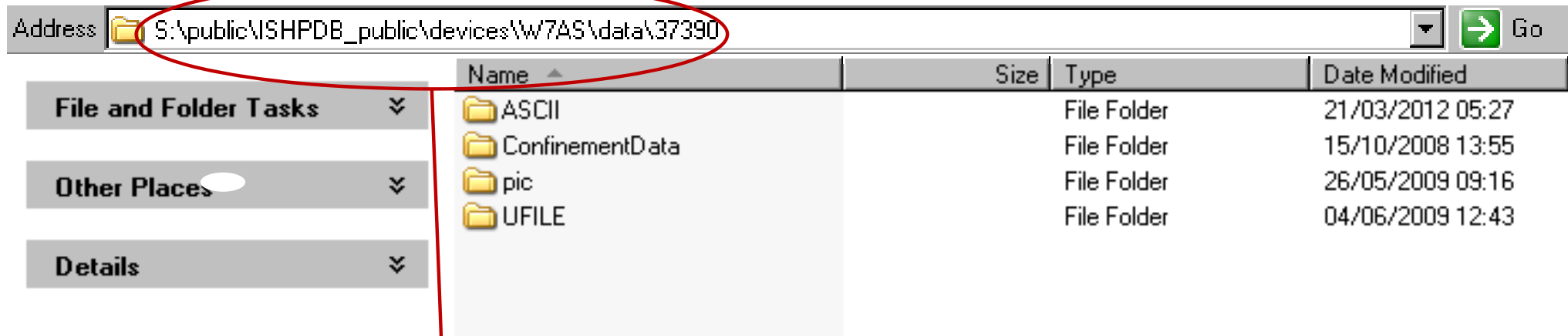
Access restriction

- Public and Working areas
- Special restrictions to access configuration data (limited user group, separate password, usage agreement for NIFS data)



- ISHPDB comprises of >2900 datasets (ca. 1.1 Terabytes) stored in the IPP's afs file system
- Data accessible from NIFS via SCP, openAFS or with IPP account
- Public and Working areas correspondingly 2124/782 datasets (Mar. 3rd, 2013)
- A variety of data formats
 - Commonly used: doc, docx, txt, jpg, png, ...
 - *.dat (ASCII files used in the fusion community)
 - UFILES (0D ,e.g. for confinement data, 2D for profiles)
 - Different approaches to save magnetic configuration data

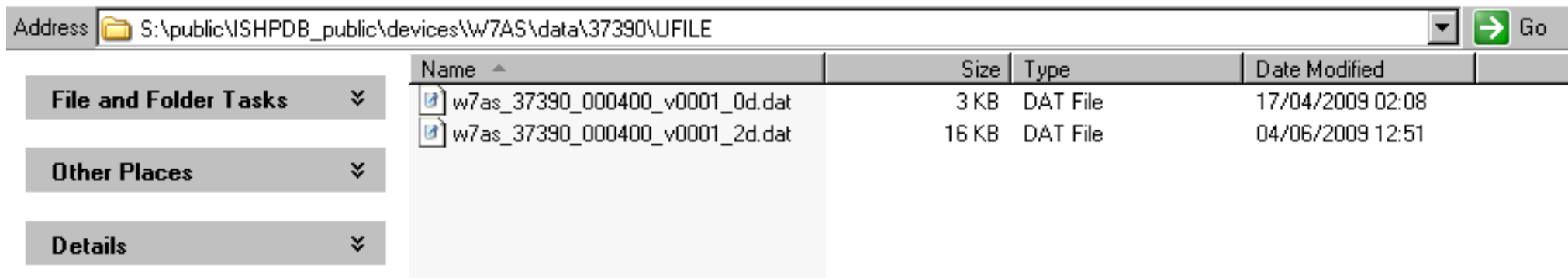
Directory structure in afs



Address: S:\public\ISHPDB_public\devices\W7AS\data\37390

Name	Size	Type	Date Modified
ASCII		File Folder	21/03/2012 05:27
ConfinementData		File Folder	15/10/2008 13:55
pic		File Folder	26/05/2009 09:16
UFILE		File Folder	04/06/2009 12:43

Working area has the same structure, additionally containing ...\[device](#)\configuration folder.



Address: S:\public\ISHPDB_public\devices\W7AS\data\37390\UFILE

Name	Size	Type	Date Modified
w7as_37390_000400_v0001_0d.dat	3 KB	DAT File	17/04/2009 02:08
w7as_37390_000400_v0001_2d.dat	16 KB	DAT File	04/06/2009 12:51

No	Topic	Data available from	Last change
1	Confinement Data Often referred to as a ISHCDB Last version is ISHCDB_26 (19.12.2012)	ATF, CHS, HELE, HELJ, LHD, TJ-II, W7-A, W7-AS + HSX & W7-X not used in ISS04	12.2012
2	Core Electron Root Confinement (CERC)	HSX, LHD, TJ-II, W7-AS	02.2013
3	High Beta	LHD, W7-AS	07.2010
4	Validation of Neoclassical Transport Theory	LHD, TJ-II	11.2012
5	High Performance Data (high $n \times T \times T$)	W7-AS	02.2013
6	High Ti	LHD	12.2011
7	H-mode	CHS, LHD, TJ-II	10.2010
8	Edge Turbulence (M. Ramisch, Stuttgart)	AUG, HSX, MAST, TJ-K, URAGAN, W7-AS, WEGA	07.2012
	Stellarator Turbulence	(IPP theory departments)	12.2011
	Magnetic Configuration Data	LHD, TJ-II, W7-AS	02.2013

Data

- Some Ufiles are still missing (see Webpages for the physics topics)
- Provide a generally accessible test code for Ufiles (take one from Sato-san?)
- Improve some 2D Ufiles: more explanation in the COMMENTS area is required (e.g. the meaning of the field THZ198 in w7as_54022)
- Create new Confinement Database version ISHCDB_27 (by adding TJ-II data)

Web

- Complete the Working Area page
- Further unification of the appearance of the single topics pages

Ongoing servicing

- ...