



Marco's screen saver — Marco's screen saver — Marco's screen saver — Marco's screen saver —
Marco's screen saver — Marco's screen saver — Marco's screen saver — Marco's screen saver —
Marco's screen saver — Marco's screen saver — Marco's screen saver — ...



database on

FRAGMENTATION FUNCTIONS

Rainer Jakob (Universität Wuppertal)

Marco Radici (Università di Pavia & INFN Pavia)



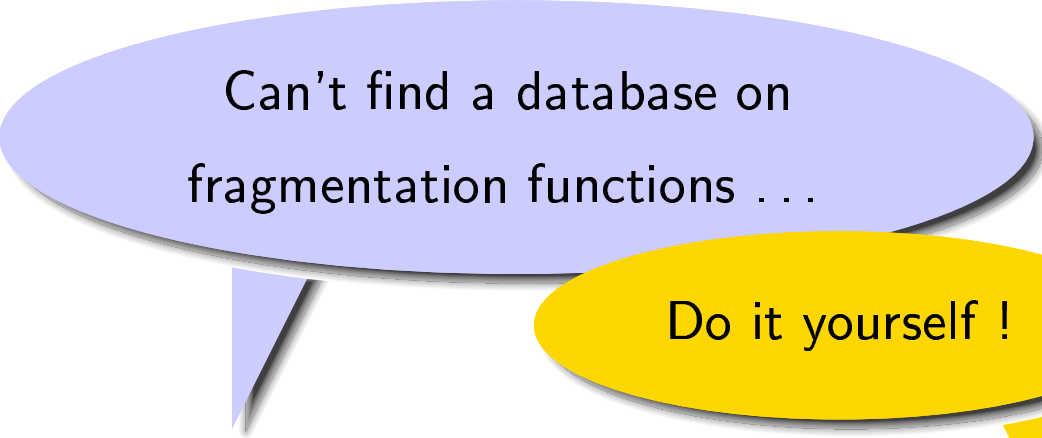
the database started in *summer 1996* ...

for a model calculations of PDFs and FFs we
(Piet Mulders, Joao Rodrigues and RJ) looked for a
comparison of our findings with data ...

there's a lot of very useful information about PDFs
and their parametrizations available on the net, e.g.:

- **PDFLIB** (library package in the CERNLIB)
- **DURHAM HEPDATA**
- **CTEQ metapage**

but where is this kind of information for the
Fragmentation Functions ?



Can't find a database on
fragmentation functions ...




Do it yourself !

so ...





if it really doesn't exist ... why not do it ourselves ???

in **fall 1996** there was a Web-page
installed at NIKHEF as an
extended list of references

 in **January 1997** the 'database' became an official project of the TMR network

**"Hadronic Physics with
High Energy Electromagnetic Probes"**

 in **July 1999** it moved to Pavia and is maintained by **Marco Radici** since then

 since **September 2000** it is an official project of the TMR network

"Electron Scattering of Confined Partons"

 in **summer / autumn 2001** the database will receive a major update we hope 



● in 1996 there simply was not much info available to be collected

⇒ so the 'database' *de facto* was (and still is) merely an extended '*list of references*' with some decorating text and some colored pics around

● since then the situation changed considerably:


three NLO analyses – at least –
corresponding parametrizations

new and more precise (semi-inclusive)
experimental data

increased interest in 'exotic' FF
in connection with transversity

- time-reversal odd FF
- interference FF
- spin-1 FF

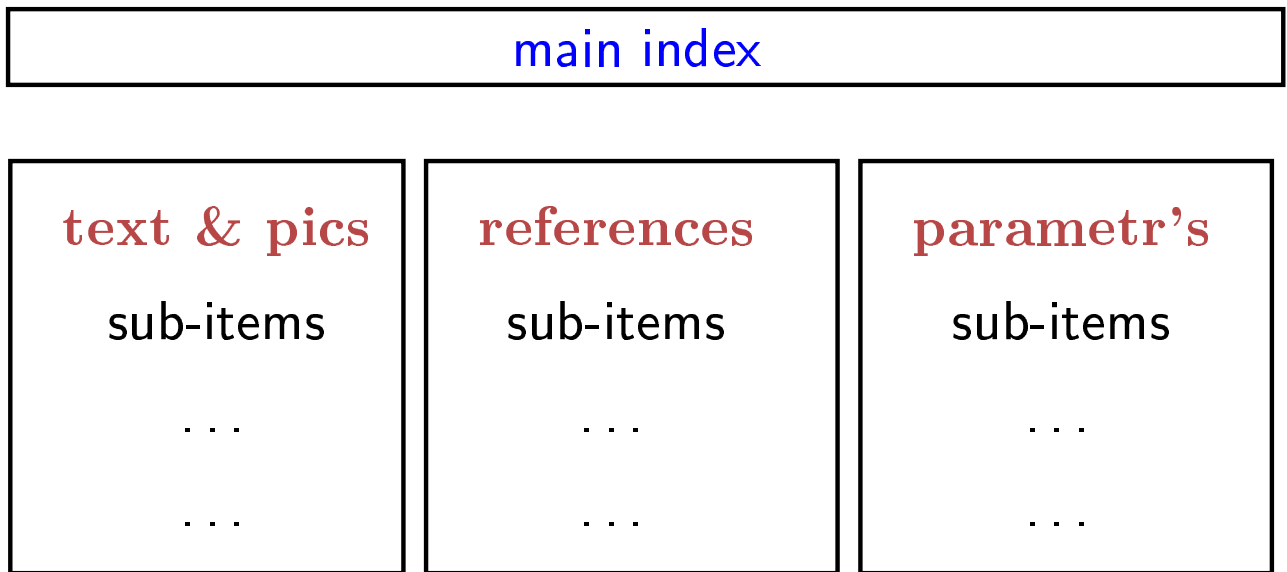


 an up-dated **future** version of the database could serve the following purposes:

1. have an up-dated text
and <<*lots of*>> colorful pics
2. give easy access to the listed references
(incl. links to SPIRES and E-journals)
3. give easy access to available
global parametrizations
in form of subroutines
and/or automatized I/O ('slotmachine')



● the database should contain - at least - three parts according to the identified purposes and may have a structure like this:

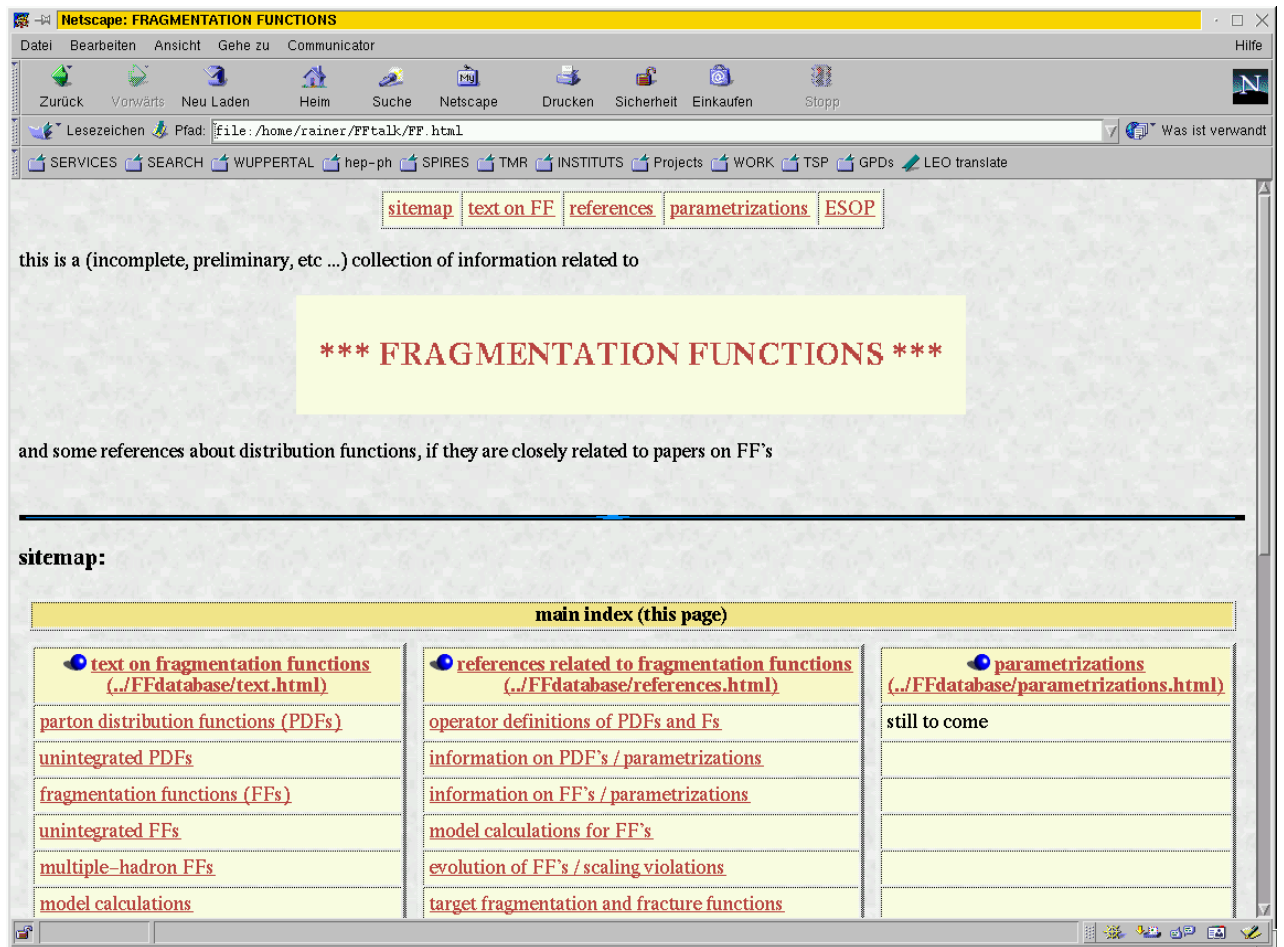


it should look nice and colorful, and have some tools for easy navigation

⇒ it could look like the following proposal



proposal:



have a look at:

<http://www.pv.infn.it/~radici/FFdatabase/>



still there is lots to do:

shopping list:

~~2 l milk, 6 eggs~~
~~bread & butter~~

● ~~polarized FF~~

● fracture functions

● fragmentation in Monte Carlos

● global parametrizations

program code, 'slotmachine'

● gluon fragmentation

● experimental data ???

(hmmm, may be not, ... DURHAM covers this)

● heavy quark FF



so, you are invited ...

invitation

to participate and/or contribute to the

database on

FRAGMENTATION FUNCTIONS

<http://www.pv.infn.it/~radici/FFdatabase/>

contact:

Marco Radici
<radici@pv.infn.it>

or Rainer Jakob
<rainer@theorie.physik.uni-wuppertal.de>