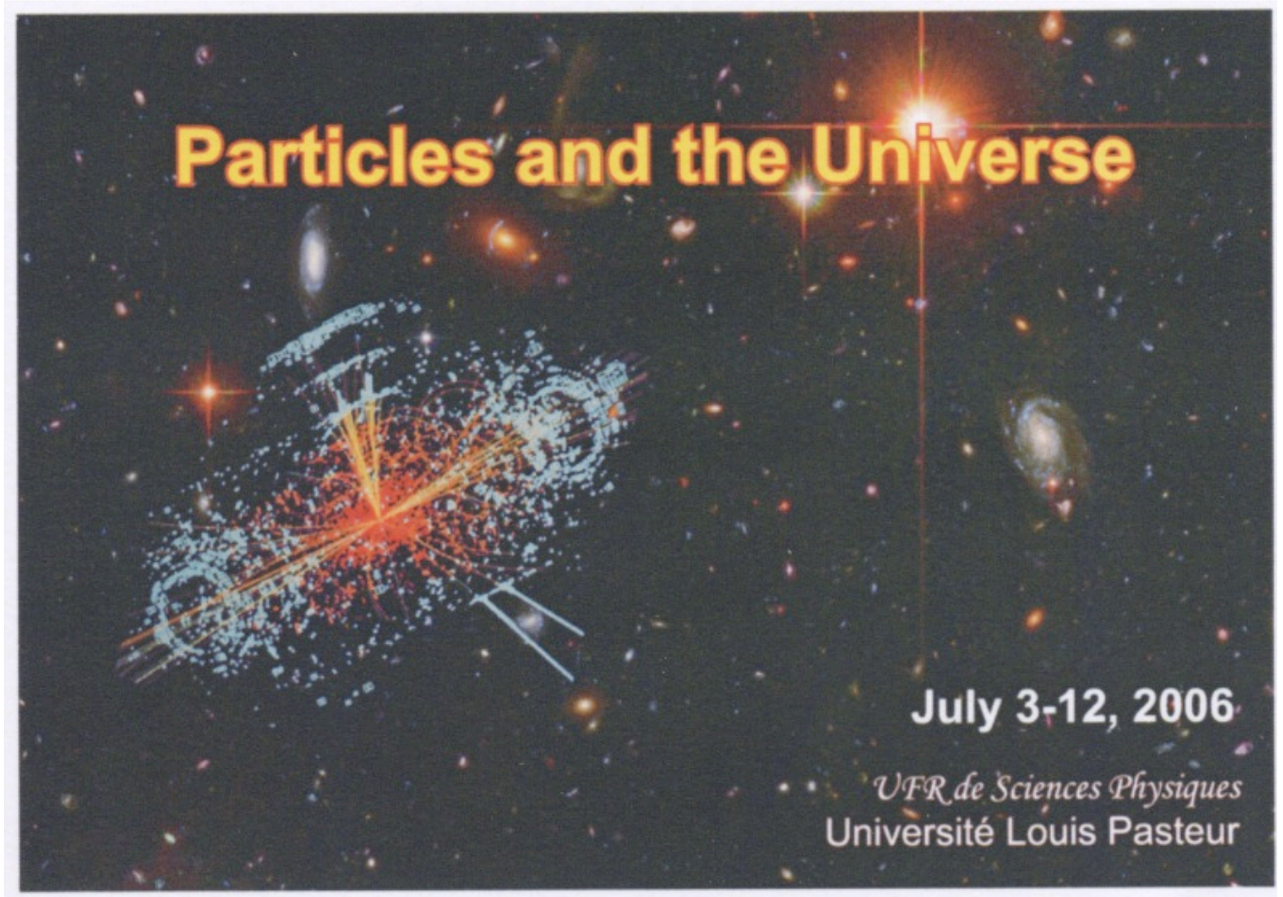


Welcome to

Forschungszentrum Karlsruhe

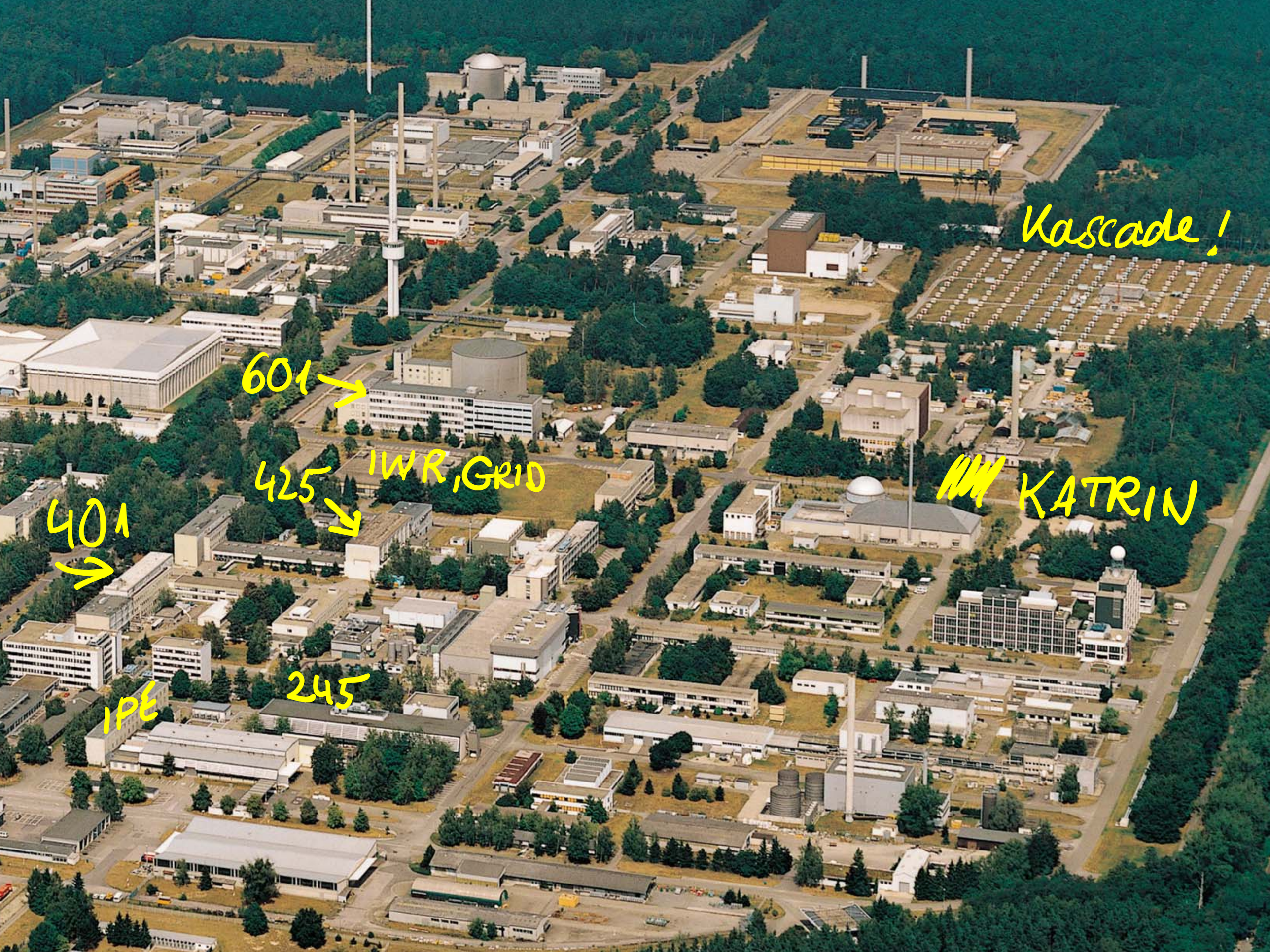
also a centre for astroparticle physics!

Summary Programme for the European Summer University 2006

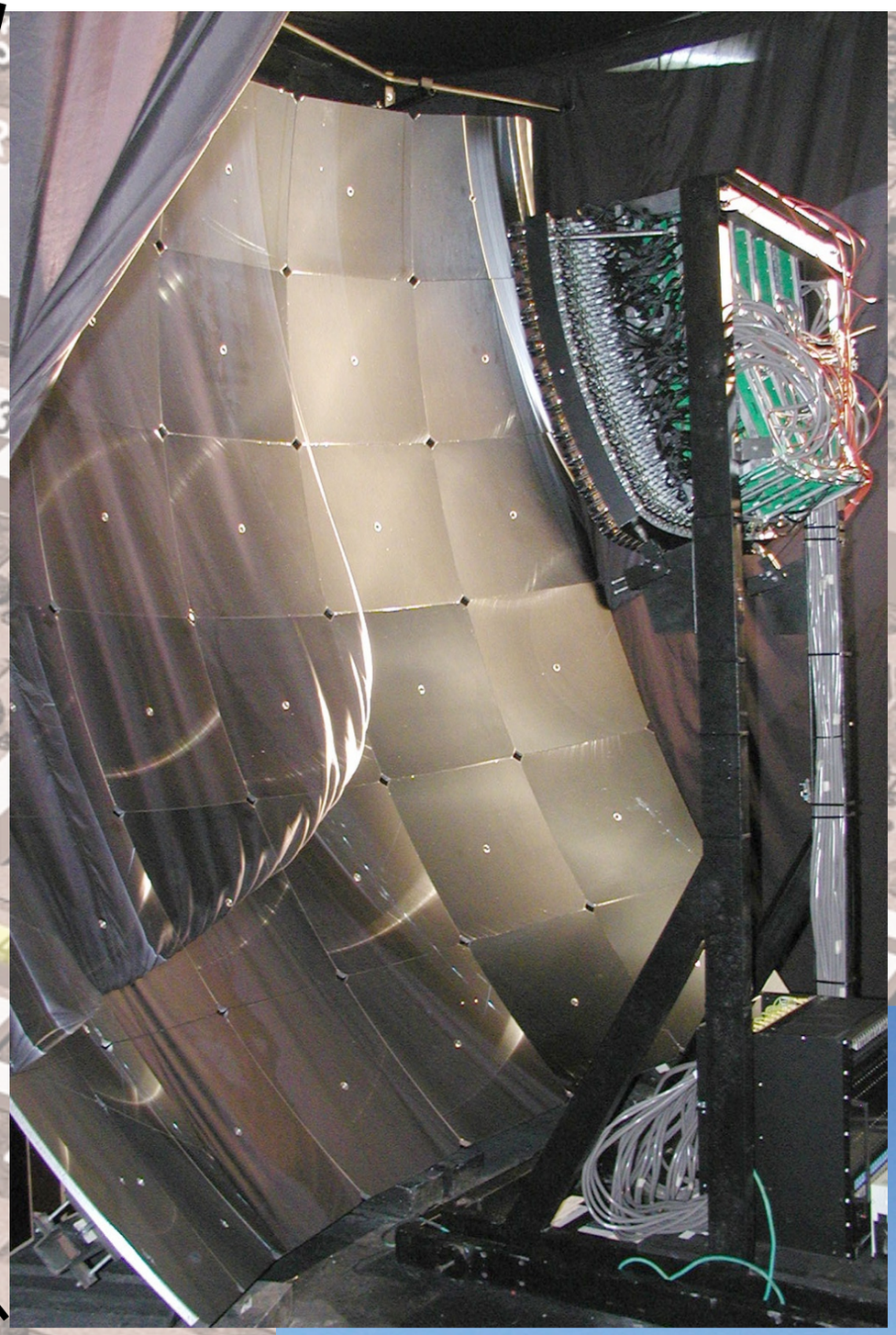
time	3.7 UFR	4.7 Tue UFR Physique	5.7 Wed UFR Physique	6.7 Thu Observatory	7.7 Fri UFR Physique	8.7 Sat UFR Physique	9.7 Sun	10.7 Mon Forschungszentrum KA	11.7 Tue UFR Physique	12.7 Wed UFR Physique
8:30 -10:15	registration	Opening 8:45 ceremony *H.G.Schopper CERN* Physics brings Nations together	*G. Cohen-Tannoudji, CEA Paris* The Standard Model	*B.Vollmer, Observatoire Strasbourg* Classic Big Bang Cosmology	*A.DeRoeck CERN* Physics at Future High Energy Colliders (I)	*A.DeRoeck CERN* Physics at Future High Energy Colliders (II)	9:30 Excursion Vosges Walk with Picnic from Bergheim to Kintzheim (≈ 12km) Or sight seeing Bergheim and then by bus along the "Route du vin" to Kintzheim	*A. Haungs, FZ Karlsruhe* High-Energy Cosmic Ray Physics	*J.Lesgourgues, LAPP Annecy* Cosmological Neutrinos	*M. Petropoulos, Ecole Polytechnique, Paris* SUSY and String theories
Coffee								Coffee		
10:45 - 12:30	registration	*G. Cohen-Tannoudji, CEA Paris* The Standard Model	Free to prepare exercises	*J. Heyvaerts, ULP et Obs.* Strasbourg Cosmic High Energy Phenomena	10:30-12:30 Reimbursement at the "Caisse de l'ULP"	*M.Dracos, IPHC, Strasbourg* Neutrino Oscillations		*Klaus Eitel FZ Karlsruhe* Search for Cosmological Dark Matter	*M. Feindt, TU Karlsruhe* WWW, Grid, Neural Computing	*Exercises* Cosmic Rays Dark Matter Neutrinos SUSY and Strings
lunch								lunch		
14:00 -15:45	registration	Presentation of students, form exercise groups	*Exercises* Standard Model Experiments Neutrinos	*J.Ph. Uzan, Inst. d'Astrophys. Paris* Primordial Cosmology	*Exercises* Cosmology Astrophysics Collider Physics	14:00 Guided sight seeing of Strasbourg: Cathedral and old town		Visit of experiments: Kascade, Auger, Katrin	15 :00 European Parliament	*U. Parzefall, Univ. Freiburg* Silicon Detectors in Particle Physics
Coffee										Coffee
16:15 -18:00	registration	*U.Goerlach, ULP, Strasbg* Large experiments at large accelerators	free	Visit to (virtual) observatory	15:30 departure of bus: Visit of Campus Cronenbourg	free	17:00 Volerie des Aigles Château de Kintzheim			Synthesis and Closing session
Dinner		18:45 Welcome reception at the UFR	18:30 Reception at the « Mairie » of Strasbourg	Gallia	Gallia	Gallia	Soirée Tartes flambées Dieffenthal	19:30 BBQ in Neuburg On our way home	Students evening	
Evening Program		21:00 soccer World cup: Half Final	21:00 soccer World cup: Half Final	19:30 Musée d'Art Moderne	21:00 Nocturnal Boat-Ride	21:00d soccer World cup: 3rd position	20:00 soccer World cup: Final	21:30 Return to Strasbourg		

09:00-09:15 Introduction in Building 419, Room 104
09:15-10:15 A. Haungs
10:15-10:45 coffee
10:45-11:45 K. Eitel
11:45-13:00 lunch
13:00-16:00 visit of experiments KASCADE, AUGER, KATRIN in 3 groups rotating
as follows
13:00-13:45 First experiment
15min to go to next experiment
14:00-14:45 Second experiment
15min
15:00-15:45 Third experiment
16:00 End at Forschungszentrum Karlsruhe

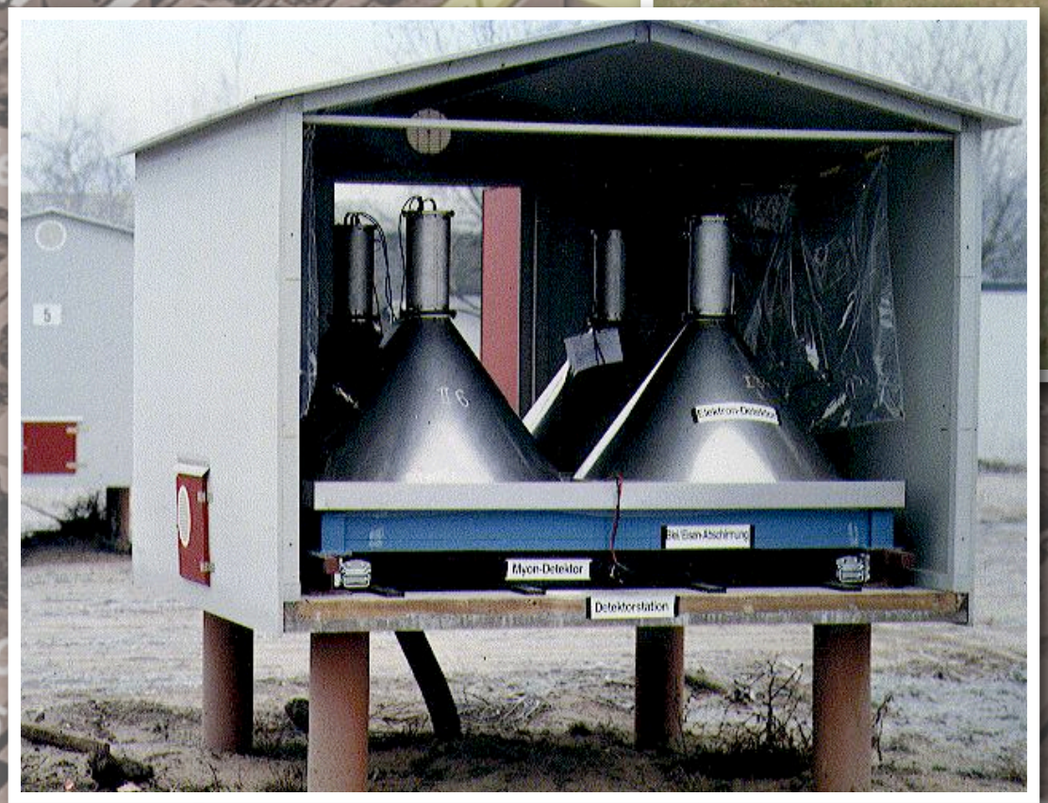
19:30 BBQ in Neuburg on your way home
21:30 Return to Strasbourg


Kascade!
601
425
IWR, GRID
401
KATRIN
IPE
245

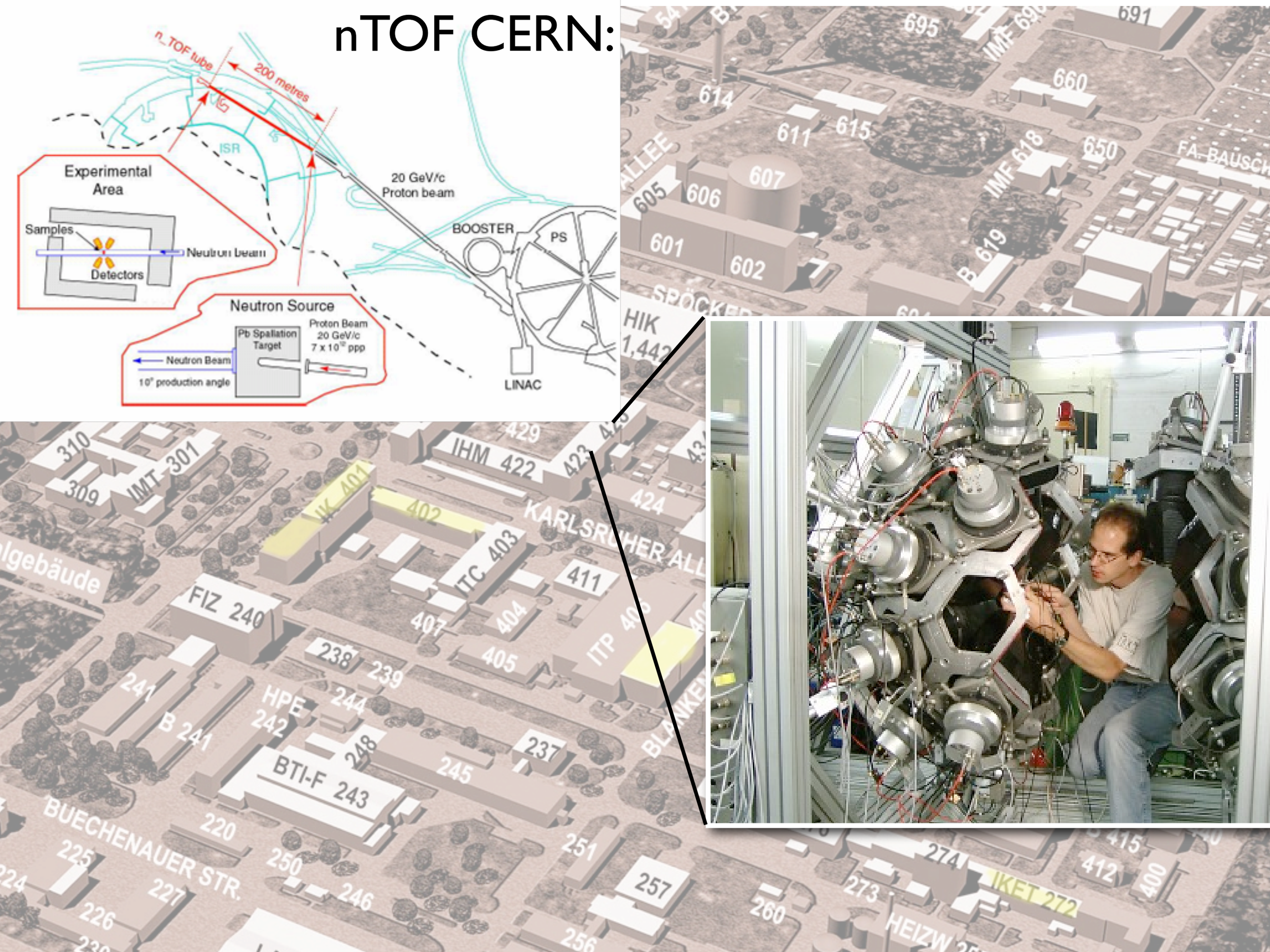
517
512
516
510
519
LINKENHEIMER STR.
ANKA
348
349
342
IFIA
BFE
325
324
326
IMK
322
IFIA 321
303
310
309
IMT 301
IK 401
FIZ 240
238
241
B 241
HPE
242
244
248
245
237
BTI-F 243
BUECHENAUER STR.
225
220
250
227
246
226

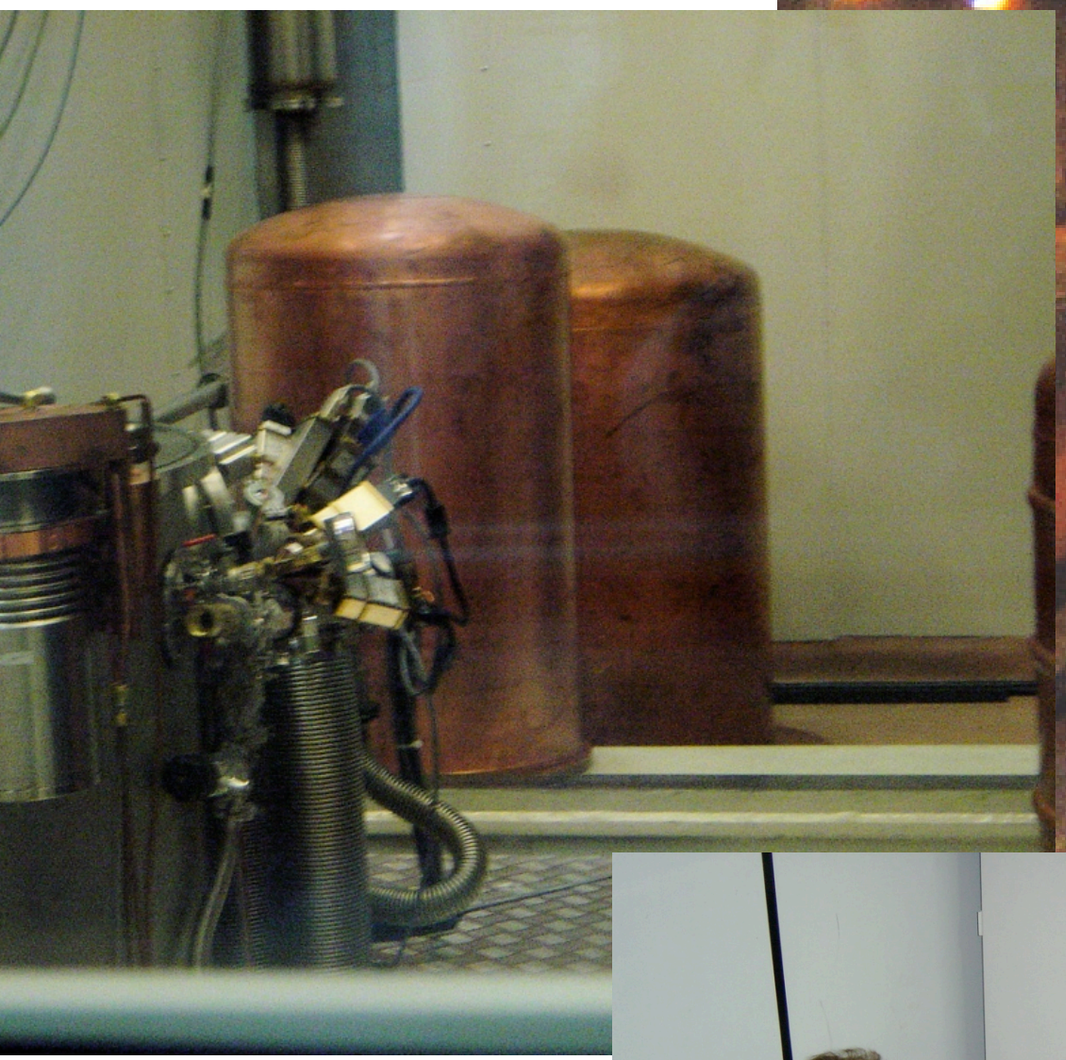


695
IMF 696
691
660
IMF 618
650
FA. BAUSCH
B 619
604
633
IHM
630
631
ITAS 451
HVT 452
WEINGARTENER


Myon-Detektor
Detektorstation

nTOF CERN:



n_TOF tube
200 metres
ISR
Experimental Area
Samples
Neutron beam
Detectors
20 GeV/c Proton beam
BOOSTER
PS
Neutron Source
Pb Spallation Target
Proton Beam 20 GeV/c 7 x 10^12 ppp
Neutron Beam
10° production angle
LINAC
HIK
IMF 618
B 619
FA. BAUSCH
IMT 301
IHM 422
KARLSRUHER ALL
ITC 403
FIZ 240
ITP 405
HPE 242
B 241
BTI-F 243
BUECHENAUER STR.
IKET 272
HEIZW

EDELWEISS im Frejus-Tunnel