

35th KATRIN Collaboration Meeting

Monday, 5 November 2018 - Saturday, 10 November 2018

Programme



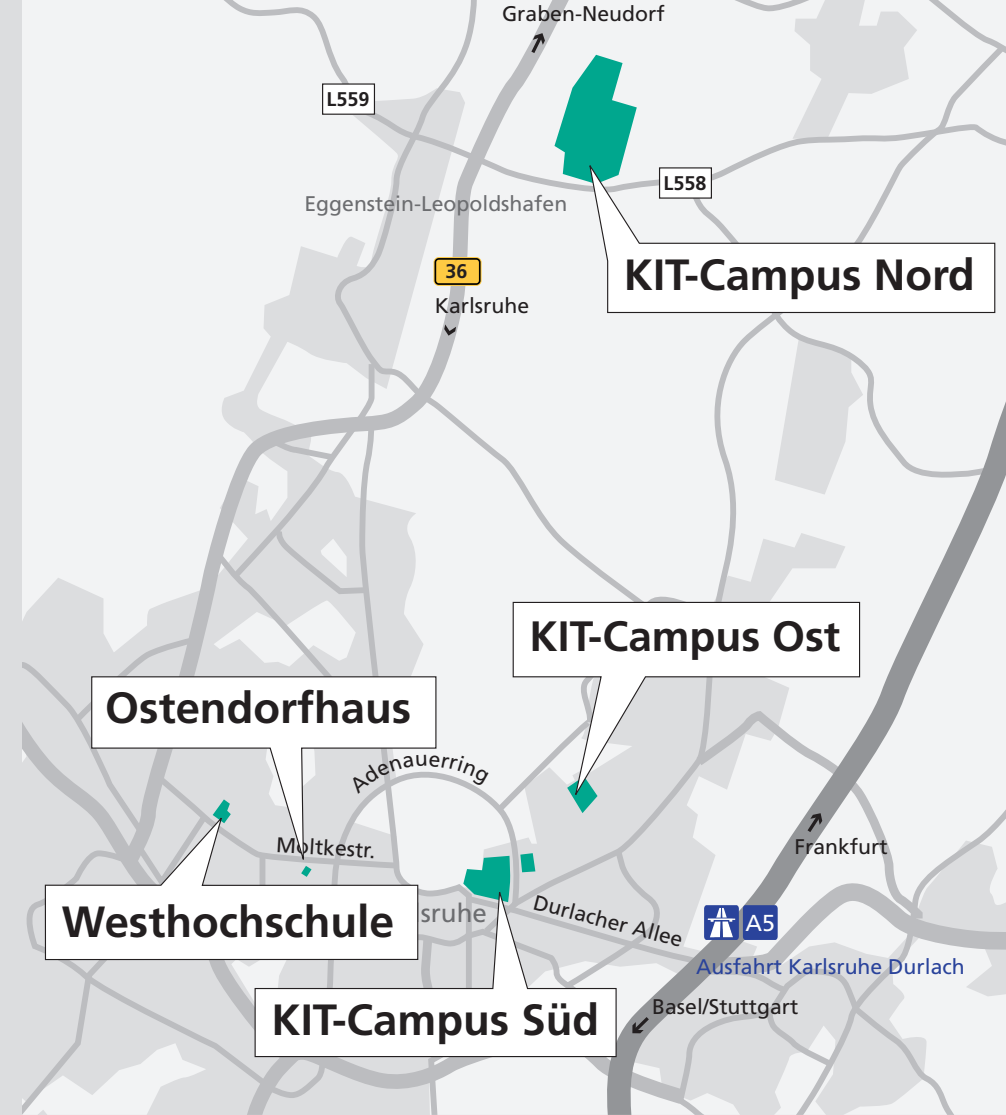
KIT
Karlsruher Institut für Technologie

LAGEPLAN CAMPUS NORD

KIT-Standorte Deutschland

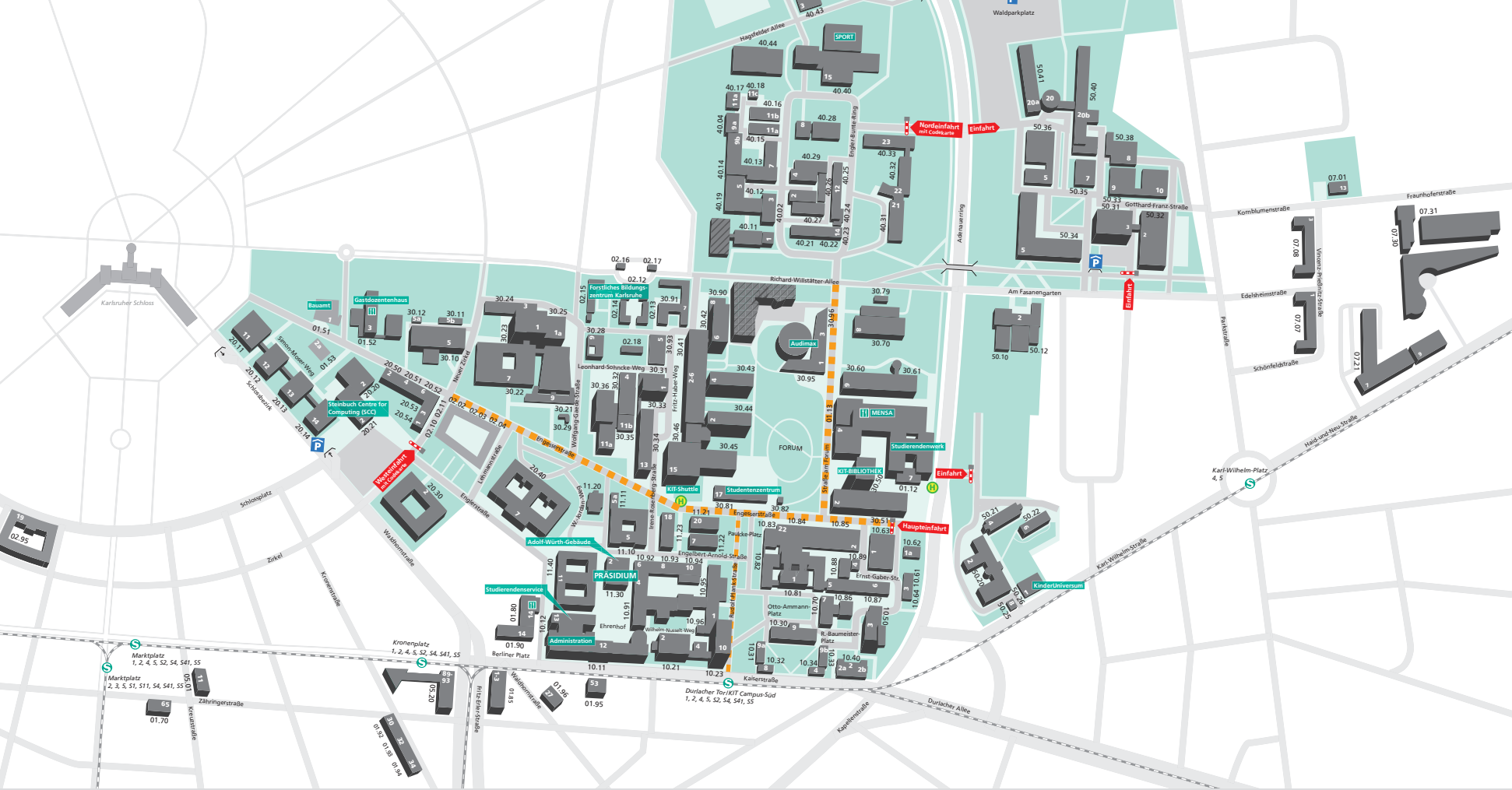


KIT-Standorte Karlsruhe



KIT-Campus Süd

Lieferanschrift:
Kaiserstraße 12
76131 Karlsruhe



Anmeldung/Information	221	B 09
KIT-Bibliothek Campus Nord	303	B 08
Dienstleistungsrotunde	210	B 09
Fortbildungszentrum für Technik und Umwelt / FTU	101	B 09
Kantine	211	B 09
KiTa „Nanos“	213	C 09
Ostendorfhäuser	191	D 01

Administration:		
Administration	141	B 09
Medizinische Abteilung	124	B 09
Sicherheitsmanagement	439	D 08
Strahlenpassstelle	436	C 08
Werkfeuerwehr	315	A 08

Institute:		
Angewandte Informatik (IAI)	445	C 07
ANKA Commercial Services (ANKA-COS)	345	B 07
ANKA Synchrotronstrahlungsquelle	329	C 08
Atmosphärische Spurengase und Fernerkundung (IMK-ASF)	435	D 08
Atmosphärische Umweltforschung (IMK-IFU) Garmisch-Partenkirchen	3101	D 02
Atmospheric Aerosol Research (IMK-AAF)	326	B 08
Biologische Grenzflächen I (IBG-I)	601	C 07
Biologische Grenzflächen II (IBG-II)	352	A 07
Experimentelle Kernphysik (IEKP)	401	B 08
Festkörperphysik (IFP)	425	C 08
Forschungsbereich Troposphäre (IMK-TRO)	435	D 08
Funktionelle Grenzflächen (FG)	330	A 08
Hochleistungsimpuls- und Mikrowellentechnik (IHM)	421	B 08
IAM – Angewandte Werkstoffphysik (IAM-AWP)	681	C 05
IAM – Energiespeichersysteme (IAM-ESS)	441/1	B 07
IAM – Werkstoff- und Biomechanik (IAM-WBM)	696	C 06
IAM – Werkstoffprozessertechnik (IAM-WPT)	695	A 06
Katalysatorforschung und -technologie (IKFT)	727	B 05
Kern- und Energietechnik (IKET)	420	D 08
Kernphysik (IKP)	401	B 08
Mikrostrukturtechnik (IMT)	301	B 08
Mikroverfahrenstechnik (IMVT)	605	B 07
Nanotechnologie (INT)	640	C 07
Neutronenphysik und Reaktortechnik (INR)	521	B 06
Nukleare Entsorgung (INE)	714	A 05
Photonenforschung und Synchrotronstrahlung (IPS)	345	B 07
Prozessdatenerverarbeitung und Elektronik (IPE)	242	C 09
Steinbuch Centre for Computing (SCC)	449	C 07
Strahlenforschung (ISF)	123	B 09
Technikfolgenabschätzung und Systemanalyse (ITAS)	3300	K'he
Technische Chemie (ITC)	403	C 08
Technische Physik (ITEP)	418	C 08
Toxikologie und Genetik (ITG)	305	B 08
Tritiumlabors Karlsruhe (ITP-TLK)	451	C 07

Projekträger:		
PTKA – Produktion und Fertigungstechnologien (PTKA)	436	C 08
PTKA – Produktion und Fertigungstechnologien (PTKA-PFT)	436	C 08
PTKA – Programm Lebensgrundlage Umwelt und ihre Sicherung (PTKA-BWPLUS)	438	C 08
PTKA – Projekträger Wassertechnologie und Entsorgung (PTKA-WTE)	416	C 08
PTKA – Projekträger Wassertechnologie und Entsorgung, Standort Dresden (PTKA-WTE)		D 03

Programme:		
Astroteilchenphysik (ASTRO)	401	B 08
Atmosphäre und Klima (ATMO)	435	D 08
BioInterfaces (BIF)	440	B 08
Erneuerbare Energien (EE)	435	D 08
Forschung mit Photonen, Neutronen, Ionen (ANKA)	329	B 08
Grid Computing Centre Karlsruhe (GridKa)	449	C 07
Kernfusion (FUSION)	451	C 07
Nukleare Sicherheitsforschung (NUKLEAR)	433	C 08
Rationelle Energieumwandlung und -nutzung (REUN)	435	D 08
Supercomputing	449	C 07
Technologie, Innovation und Gesellschaft (TIG)	3300	K'he
Wissenschaft und Technologie der Nanosysteme (STN)	440	C 07

Warnhinweise

- Interne Notrufnummer 3333
- Auf dem Campus gilt die Straßenverkehrsordnung.
- Höchstgeschwindigkeit 50 km/h.
- Vorfahrtsregel „rechts vor links“ beachten.
- Sicherheitsbereiche dürfen nur unter Beachtung örtlicher Regularien betreten werden.
- Zutritt ist tageszeitlich begrenzt.

Standortsuche

Service-Telefon +49 721 608-1000
08:00 – 18:00 Uhr
Campuspläne als App
www.pkm.kit.edu/navigator

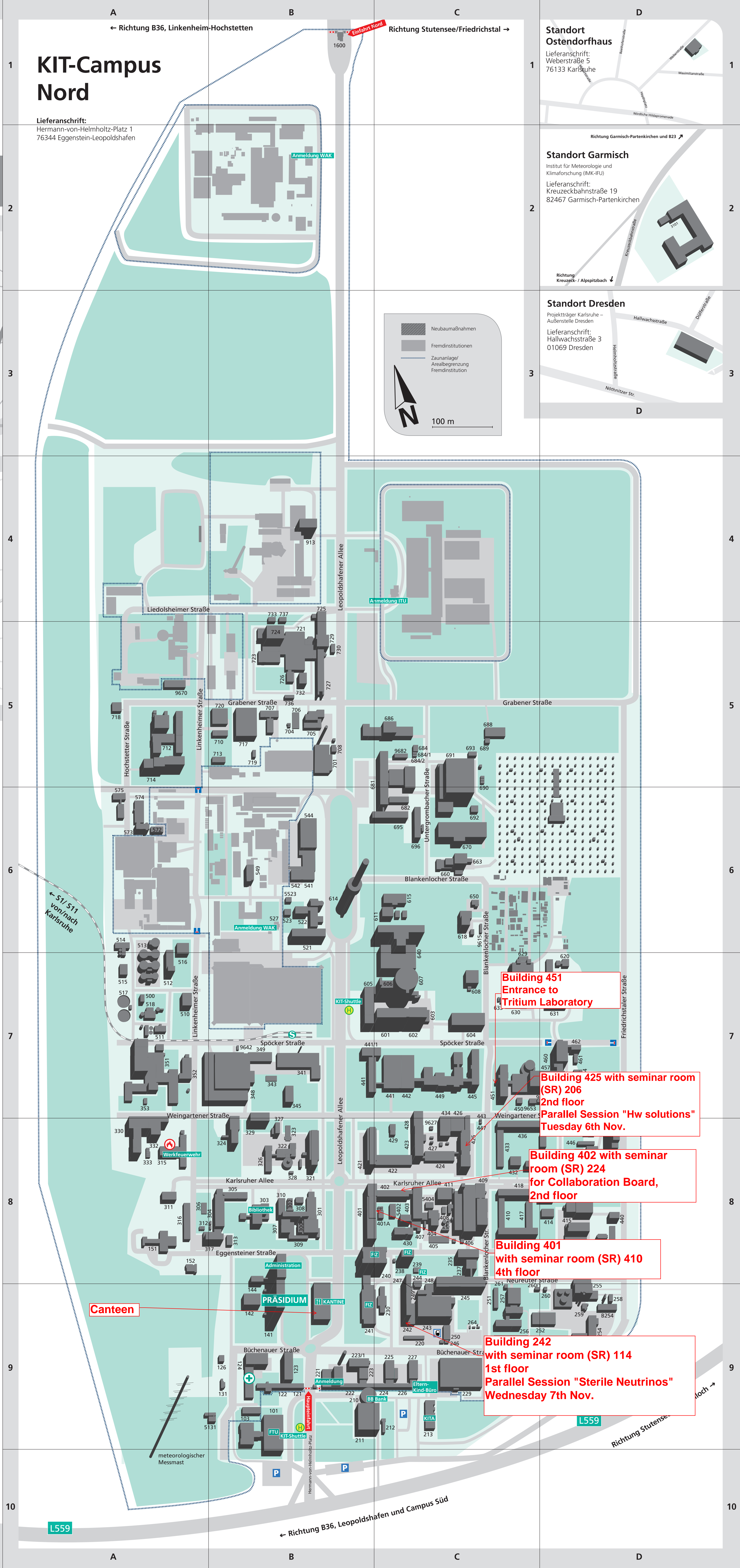


Herausgeber
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Kontakt
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Liegenschaftsmanagement KIT (TID-SLM)
campusplan@tid.kit.edu

Stand:
August 2014

KIT – Universität des Landes Baden-Württemberg und nationales Forschungszentrum in der Helmholtz-Gemeinschaft



Standort Ostendorfhäuser
Lieferanschrift:
Weberstraße 5
76133 Karlsruhe

Standort Garmisch
Institut für Meteorologie und Klimaforschung (IMK-IFU)
Lieferanschrift:
Kreuzeckbahnstraße 19
82467 Garmisch-Partenkirchen

Standort Dresden
Projekträger Karlsruhe – Außenstelle Dresden
Lieferanschrift:
Hallwachsstraße 3
01069 Dresden

Building 451
Entrance to
Tritium Laboratory

Building 425 with seminar room (SR) 206
2nd floor
Parallel Session "Hw solutions"
Tuesday 6th Nov.

Building 402 with seminar room (SR) 224
for Collaboration Board,
2nd floor

Building 401
with seminar room (SR) 410
4th floor

Building 242
with seminar room (SR) 114
1st floor
Parallel Session "Sterile Neutrinos"
Wednesday 7th Nov.

Monday 05 November 2018

Transport: from hotel Eden (08:00-09:00)

Plenary: Hardware Performance (09:00-10:45)

-Conveners: Hickford, Stephanie (KIT)

time	title	presenter
09:00	Welcome	WEINHHEIMER, Christian (WWU) DREXLIN, Guido (KIT)
09:10	Rear Section: Commissioning	SCHLÖSSER, Klaus (KIT)
09:25	Rear Section: E-gun commissioning	BEHRENS, Jan (KIT)
09:45	Rear Section: UV illumination	FULST, Alexander (WWU)
10:00	Loop commissioning with deuterium and tritium	STURM, Michael (KIT)
10:15	Loop performance	MARSTELLER, Alexander (KIT)
10:30	Tritium supply and recovery for (Very) First Tritium	WELTE, Stefan (KIT)

Break: Coffee (10:45-11:15)

Plenary: Hardware Performance (2) (11:15-13:00)

-Conveners: Thorne, Larisa (CMU)

time	title	presenter
11:15	Organizational issues	STEIDL, Markus (KIT)
11:20	Update on the SDS section	THÜMLER, Thomas (KIT)
11:35	Detector upgrades and high data rate performance	ENOMOTO, Sanshiro (UW)
11:50	Report from the HV task	RODENBECK, Caroline (WWU)
12:05	Status of the DAQ and slow control system	KOPMANN, Andreas (KIT) WILKERSON, John (UNC)
12:20	Report by the Safety Officer	MARK, Martin (KIT)
12:30	Report by the Run Time Coordinator	JANSEN, Alexander (KIT)
12:50	Discussion & Conference photo	WOLF, Joachim (KIT)

Break: Lunch (13:00-14:30)

Plenary: STS.III.a Measurements 1 of 2 (14:30-16:00)

-Conveners: Martin, Eric (UNC)

time	title	presenter
14:30	Results from the August-KrS campaign	FULST, Alexander (WWU)
14:45	Report on Alignment studies	DEFFERT, Marco (KIT)
15:00	FBM data from measurements over the past six months	HAUSSMANN, Norman (U Wuppertal)
15:15	The e-gun characterization	SACK, Rudolph (WWU)
15:30	Energy loss measurements	SCHIMPF, Lutz (KIT)

15:45	ToF results	RODENBECK, Caroline (WWU)
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Break: Coffee (16:00-16:30)

Plenary: STS.III.a Measurements 2 of 2 (16:30-18:00)

-Conveners: Slezak, Martin (TUM/MPP)

time	title	presenter
16:30	Ion measurements	HERNANDEZ-VIZCAYA, Ana Paula (CMU) FRIEDEL, Fabian (KIT)
16:55	Measurements with gaseous 83m-Kr	MACHATSCHEK, Moritz (KIT)
17:20	Testing the Rydberg model (1)	HINZ, Dominic (KIT)
17:40	Testing the Rydberg model (2)	POLLITHY, Anna (TUM/MPP)

Transport: to hotels (18:30-19:00)

Tuesday 06 November 2018

Transport: from hotel Eden (08:00-08:45)

Plenary: Analysis Overview (08:45-10:45)

-Conveners: Haussmann, Norman (U Wuppertal)

time	title	presenter
08:45	General Analysis Overview	VALERIUS, Kathrin (KIT) MERTENS, Susanne (TUM/MPP)
09:10	Report Working Group 1	FRÄNKLE, Florian (KIT)
09:20	Report Working Group 2	BEHRENS, Jan (KIT)
09:30	Report Working Group 3	ENOMOTO, Sanshiro (UW)
09:40	Report Working Group 4	HICKFORD, Stephanie (KIT)
09:50	Report Working Group 5	LOKHOV, Alexei (INR Toritsk)
10:00	The First Tritium campaign	SCHLÖSSER, Magnus (KIT)
10:20	Overview of physics analysis of first tritium data	SLEZAK, Martin (TUM/MPP)

Break: Coffee (10:45-11:15)

Plenary: Analysis (11:15-13:00)

-Conveners: Schlösser, Magnus (KIT)

time	title	presenter
11:15	First tritium data analysis and sensitivity studies	LASSERRE, Thierry (CEA)
11:35	Unbiased neutrino mass analysis strategy	SIBILLE, Valerian (MIT)
11:55	Recent results from final states calculations	SAENZ, Alejandro (HU Berlin)
12:15	Discussion	ALL
12:25	Aspects to the future of KATRIN	WEINHEIMER, Christian (WWU) DREXLIN, Guido (KIT) STEIDL, Markus (KIT)
12:50	Discussion	ALL

Break: Lunch (13:00-14:15)

Parallel: B: Measurements and Analysis I - Room 410 (14:15-15:46)

-Conveners: Behrens, Jan (KIT)

time	title	presenter
14:15	Influence of high voltage scanning strategy on the energy scale at KATRIN monitorspectrometer	EGNER, Manuel (KIT)
14:28	Preliminary comparison of energy loss models from STS3a	LOKHOV, Alexei (INR Troitsk)
14:41	Discrepancies in the existing electron energy loss spectrum data	TITOV, Nikita (INR Troitsk)
14:54	Observed exchange reactions	KRASCH, Bennett (KIT)
15:07	MoBSU measurements of analysis plane magnetic field	BLOCK, Fabian (KIT)

15:20	Krypton measurements (CKrS)	FEDKEVYTCH, Mariia (WWU)
15:33	Deconvolution methods and simulation for energy loss	DEBOWSKI, Karol (KIT)

Parallel: A: Hw solutions and performances - Room 206 (14:15-15:47)

-Conveners: Röttele, Carsten (ETP)

time	title	presenter
14:15	LARA performance during First Tritium	ZELLER, Genrich (KIT)
14:28	Status of the LKARA software package	SANROCK, Julian (KIT)
14:41	Funeral speech for the Mercury UV-illumination of the rear wall	SCHLOESSER, Klaus (KIT)
14:54	Investigation of the gas column density from first tritium	FUCHS, Dominik (TUM/MPP)
15:07	Dissociative and Penning ions from STS	GLÜCK, Ferenc (KIT)
15:20	Investigation of the FPD energy resolution: From SDS-I through STS-IIIa	KIPPENBROCK, Luke (UW)
15:33	HV Ripple Analysis	ENOMOTO, Sanshiro (UW)

Break: Coffee (15:46-16:00)

Parallel: Discussion time in small self-organized groups (16:00-18:30)

Parallel: Board Meeting - Room 224 (16:00-18:30)

Transport: to conference dinner (18:30-19:00)

Break: Conference dinner (19:00-21:00)

Wednesday 07 November 2018

Transport: from hotel Eden (08:00-08:45)

Parallel: C: Analysis II - Room 410 (08:45-10:30)

-Conveners: Schimpf, Lutz (KIT)

time	title	presenter
08:45	Systematics investigation with covariance matrix approach	SCHLÜTER, Lisa (TU/MPP)
08:58	Comparison of analysis strategies using first tritium data	KARL, Christian (TUM/MPP)
09:11	First Bayesian analysis of tritium measurements	HA MINH, Martin (TUM/MPP)
09:24	Tritium effective endpoint analysis	GUZMAN, Pablo (TUM/MPP)
09:37	SSC/KaFit revamp progress report	LEVEN, Fabian (KIT)
09:50	MCMC with Kasper	SIBILLE, Valerian (MIT)
10:03	Model & Scan comparison for E-loss	LEHNERT, Björn (BNL)
10:16	Fitter comparison	THORNE, Larisa (CMU)

Parallel: sterile neutrinos - Room 114 (08:45-10:30)

-Conveners: Fränkle, Florian (KIT)

time	title	presenter
08:45	TRISTAN measurements at Troitsk with the CEA system: final results	ALTENMÜLLER, Konrad (TUM/MPP)
08:58	Analysis of troitsk data	BRUNST, Tim (TUM/MPP)
09:11	Update on the model for a keV-scale sterile neutrino search with KATRIN	LOKHOV, Alexei (IN RTroitsk) SLEZAK, Martin (TUM/MPP)
09:24	Analysis of First tritium data to search for keV-scale sterile neutrinos (2)	HUBER, Anton (KIT)
09:37	Analysis of First tritium data to search for keV-scale sterile neutrinos (1)	KÖLLENBERGER, Leonard (KIT)
09:50	Vacuum requirements for Tristan and first insight in DAQ characterisation with the detector emulator from CAEN	DESCHER, Martin (KIT)
10:03	Characterization of the TRISTAN detector with electrons	SIEGMANN, Daniel (TUM/MPP)
10:16	TRISTAN laboratory at KIT: status and outlook	KORZECZEK, Marc (KIT)

Break: Coffee (10:30-11:00)

Plenary: Sterile neutrinos and KATRIN matters (11:00-13:00)

-Conveners: Thümmler, Thomas (KIT)

time	title	presenter
11:00	Physics beyond the S.M. by investigating the entire tritium spectrum	RODEJOHANN, Werner (MPIK Heidelberg)
11:30	Astrophysical searches of keV neutrinos	TKACHEV, Igor (INR Troitsk)
11:50	Recent results from Troitsk	PANTUEV, Vladimir (INR Troitsk)
12:10	Update on TRISTAN	HOUDY, Thibaut (MPP)

12:25	Report from the Board Meeting	WEBER, Marc (KIT)
12:35	Report from the Pub. Comm.	POON, Alan (LBL)
12:45	Report from the Conf. Comm.	DREXLIN, Guido (KIT)

Break: Lunch (13:00-14:30)

Analysis Workshop: FSD discussions (14:30-16:30)

Coffee break (16:30-17:00)

Analysis Workshop: Background investigations (17:00-18:30)

Group work (17:00-18:30)

Transport: to hotel Eden (18:30-19:00)

Thursday 08 November 2018

Transport: from hotel Eden (08:00-09:00)

Analysis Workshop: First Tritium analysis updates (09:00-10:30)

Coffee break (10:30-11:00)

Analysis Workshop: Paper plans (11:00-12:30)

Lunch break (12:30-14:00)

Analysis Workshop: Systematics assay - STS3a and beyond (14:00-16:00)

Coffee break (16:00-16:30)

Analysis Workshop: Systematics assay - STS3a and beyond (16:30-18:30)

Transport: to hotel Eden (18:30-19:00)

Friday 09 November 2018

Transport: from hotel Eden (08:00-09:00)

Analysis Workshop: Measurement planning for first nu-mass runs (09:00-10:30)

Coffee break (10:30-11:00)

Analysis Workshop: Measurement planning for first nu-mass runs (11:00-12:30)

Lunch break (12:30-14:00)

Group work (14:00-15:30)

Group work (15:30-17:30)

Transport: exact time to be announced, to hotel Eden and main station (17:30-18:30)