Schedule

		Kick-Off Workshop
		Monday 6 August
	09:00	Arrival and registration
	09:25	Welcome
Session 1		**Atomic and nanoscale structure from coherent scattering, diffraction and imaging**
	09:30	Prospects of imaging molecules with x-ray FELs - *H Chapman*
	10:00	Nano-small and femto-fast: looking into extremes at free electron lasers - *S Eisebitt*
	10:30	Controlled molecular imaging - *J Küpper*
	11:00	Chemical research with free electron laser radiation - *S Techert*
Social Event	11:45	Friederisiko (guided tour) and lunch
Official opening	15:00	**Official opening of the Helmholtz Virtual Institute with greeting addresses**
		Speaker of the Virtual Institute - *A Föhlisch*
		President of University of Potsdam - *O Günther*
		Scientific director of the HZB (core partner) - *A Kaysser-Pyzalla*
		Vice-president of TU Berlin (core partner) - *P U Thamsen*
		Vice-president of FU Berlin (core partner) - *B Schütt*
		Head of CFEL theory division (core partner) - *R Santra*
		Scientific director of XFEL (international partner) - *S Molodtsov*
Key note lecture	15:30	**The scientific revolution enabled by x-ray free electron lasers - *J Stöhr***
	17:00	Welcome reception
		Tuesday 7 August
Session 2		**Quantum materials, magnetism and correlated solids**
	09:00	Structure and dynamics of quantum matter: a view from real-, k- and q-space - *M Golden*
	09:30	Angle-resolved photoemission on correlated systems: From synchrotrons to x-ray free electron lasers - *S Molodtsov*
	10:00	Eletronic spin correlation on the fs-timescale - *M Weinelt*
	10:30	Coffee break
	11:00	Optically excited states of low-dimensional materials probed with non-linear optics and angle-resolved photoemission - *U Bovensiepen*
	11:30	Emerging magnetic order far from equilibrium - *H Dürr*
	12:00	Structure and dynamics of domains of complex materials studied with medium-hard synchrotron light - *M Sprung*
	12:30	Ultrafast dynamics of amplitude and phase excitations in charge- and spin-ordered materials - *P Kirchmann*
	13:00	Lunch
Project session	14:00	Project talks P1 - P10 15 minutes each (closed session for partners of the VI) and poster presentation
		Wednesday 8 August
Session 3		**Molecular dynamics in physical chemistry and catalysis**
	09:30	Ultrafast electron dynamics in solids and at surfaces - *W Wurth*
	10:00	Photoionization and fragmentation of water clusters by XUV light: Non-adiabatic pathways to Coulomb explosion - *O Vendrell*
	10:30	Coffee break
	11:00	Novel methods for studying time-resolved structural and electronic dynamics in molecules - *M Vrakking*
	11:30	Opportunities to probe water and aqueous solutions with FELs - *A Nilsson*
	12:00	Bond breaking and wave packet dynamics in molecules - *A Föhlisch*
	12:30	Lunch
	13:30	Workshop summary and project discussions

		Summer school - Our toolbox
		Thursday 9 August
	09:00	X-ray spectroscopy - from fundamentals to application - *A Nilsson*
	10:30	Coffee break
	11:00	X-ray spectroscopy - from fundamentals to application - *A Nilsson*
	12:30	Lunch
	13:30	Magnetic spectroscopy - *I Radu*
	15:00	Coffee break
	15:15	Magnetic scattering - *C Schüßler*
	16:45	Coffee break
	17:00	Dynamic aspects of x-ray spectroscopy - *A Föhlisch*
		Friday 10 August
	09:00	X-ray spectroscopy of molecular dynamics - *P Wernet*
	10:30	Coffee break
	11:00	X-ray methods for ultrafast structural dynamics - *M Bargheer*
	12:30	Lunch
	13:30	Ultrafast laser science - from laser basics to applications - *M Weinelt*
	14:30	High harmonic generation - laser based VUV sources - *R Carley*