#### **Session Program**

18-24 Aug 2024



# XVIth Quark Confinement and the Hadron Spectrum

# Heavy Quarks

Cairns, Queensland, Australia Cairns Convention Centre

### Monday 19 August

14:00-14:30       Status and Prospects of Studies on Exotic Hadrons at Belle II         Speaker       Bruce Donald Yabsley         14:30-15:00       Charm mesons, charmonium resonances and exotics from lattice of Speaker         Christopher Thomas       Speaker         15:00-15:30       One Born Oppenheimer Effective Theory to rule all Exotics         Speaker       Abhishek Mohapatra         Heavy Quarks: C1b (Parallel C)       Session   Location: Plenary 2   Convener: Antonio Vairo         16:00-16:20       Properties of X(3872) from hadronic potentials coupled to quarks         Speaker       Ibuki Terashima         16:20-16:40       Tetraquark equations         Speaker       Dr Boris Blankleider         16:40-17:00       General behavior of near-threshold hadron scattering for exotic hadrons         Speaker       Katsuyoshi Sone         17:00-17:30       Quark confinement in multi-quark exotic hadrons in the quark mo         Speaker       Makoto Oka         17:30-18:00       Heavy hadrons in a chiral-diquark picture		
Bruce Donald Yabsley          14:30-15:00       Charm mesons, charmonium resonances and exotics from lattice of Speaker         Christopher Thomas       15:00-15:30         15:00-15:30       One Born Oppenheimer Effective Theory to rule all Exotics         Speaker       Abrishek Mohapatra         Heavy Quarks: C1b (Parallel C)       Session   Location: Plenary 2   Convener: Antonio Vairo         16:00-16:20       Properties of X(3872) from hadronic potentials coupled to quarks         Speaker       Ibuki Terashima         16:20-16:40       Tetraquark equations         Speaker       Dr Boris Blankleider         16:40-17:00       General behavior of near-threshold hadron scattering for exotic hadrons         Speaker       Katsuyoshi Sone         17:00-17:30       Quark confinement in multi-quark exotic hadrons in the quark mo         Speaker       Makoto Oka	14:00-14:30	Status and Prospects of Studies on Exotic Hadrons at Belle II
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Speaker Christopher Thomas         15:00-15:30       One Born Oppenheimer Effective Theory to rule all Exotics         Speaker Abhishek Mohapatra         Heavy Quarks: C1b (Parallel C) Session   Location: Plenary 2   Convener: Antonio Vairo         16:00-16:20       Properties of X(3872) from hadronic potentials coupled to quarks         Speaker Ibuki Terashima         16:20-16:40       Tetraquark equations         Speaker Dr Boris Blankleider         16:40-17:00         General behavior of near-threshold hadron scattering for exotic hadrons         Speaker Katsuyoshi Sone         17:00-17:30       Quark confinement in multi-quark exotic hadrons in the quark mo         Speaker Makoto Oka	14:30-15:00	Charm mesons, charmonium resonances and exotics from lattice O
Christopher Thomas          15:00-15:30       One Born Oppenheimer Effective Theory to rule all Exotics         Speaker       Abhishek Mohapatra         Heavy Quarks: C1b (Parallel C)       Session   Location: Plenary 2   Convener: Antonio Vairo         16:00-16:20       Properties of X(3872) from hadronic potentials coupled to quarks:         Speaker       Ibuki Terashima         16:20-16:40       Tetraquark equations         Speaker       Dr Boris Blankleider         16:40-17:00       General behavior of near-threshold hadron scattering for exotic hadrons         Speaker       Katsuyoshi Sone         17:00-17:30       Quark confinement in multi-quark exotic hadrons in the quark mo         Speaker       Makoto Oka		
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Makoto Oka	General bel Speaker	
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17:30-18:00 Heavy hadrons in a chiral-diquark picture	General bel Speaker Katsuyoshi Son 17:00-17:30	e
	General bel Speaker Katsuyoshi Son 17:00-17:30 Speaker	
Speaker	General bel Speaker Katsuyoshi Son 17:00-17:30 Speaker Makoto Oka	e Quark confinement in multi-quark exotic hadrons in the quark mod

# Tuesday 20 August

	ntion: Plenary 2   Convener: Dr Roberto Mussa
14:00-14:30 How many v	vector charmonium(-like) states sit in the energy range from 4.2 to
4.35 GeV?	
<b>Speaker</b> Qian Wang	
14:30-15:00	Mixing of heavy and light quarks in charmonium and light meson
Speaker	······································
Francesco Giaco	omo Knechtli
15 00 15 25	
15:00-15:30	netic and axial-vector structure of singly heavy baryons in a pion
mean-field a	
Speaker	
Hyun-Chul Kim	
	arks: C2h (Parallel C)
-	arks: C2b (Parallel C)
Session   Loca	tion: Plenary 2   Convener: Makoto Oka
Session   Loca	
Session   Loca 16:00-16:20 Speaker	Diquarks in lattice QCD
Session   Loca	Diquarks in lattice QCD
Session   Loca 16:00-16:20 Speaker	Diquarks in lattice QCD
Session   Loca 16:00-16:20 Speaker Anthony Sebast 16:20-16:40	tion: Plenary 2 Convener: Makoto Oka Diquarks in lattice QCD tian Francis
Session   Loca 16:00-16:20 Speaker Anthony Sebast	tion: Plenary 2 Convener: Makoto Oka Diquarks in lattice QCD tian Francis
Session   Loca 16:00-16:20 Speaker Anthony Sebast 16:20-16:40 Speaker Joshua Lin	attion: Plenary 2 Convener: Makoto Oka   Diquarks in lattice QCD tian Francis Spectator effects in inclusive lifetimes of heavy hadrons
Session   Loca 16:00-16:20 Speaker Anthony Sebast 16:20-16:40 Speaker	tion: Plenary 2 Convener: Makoto Oka Diquarks in lattice QCD tian Francis
Session   Loca 16:00-16:20 Speaker Anthony Sebast 16:20-16:40 Speaker Joshua Lin	attion: Plenary 2 Convener: Makoto Oka   Diquarks in lattice QCD tian Francis Spectator effects in inclusive lifetimes of heavy hadrons
Session   Loca 16:00-16:20 Speaker Anthony Sebast 16:20-16:40 Speaker Joshua Lin 16:40-17:00	attion: Plenary 2 Convener: Makoto Oka   Diquarks in lattice QCD tian Francis Spectator effects in inclusive lifetimes of heavy hadrons
Session   Loca 16:00-16:20 Speaker Anthony Sebast 16:20-16:40 Speaker Joshua Lin 16:40-17:00 Speaker Oliver Witzel	Inition: Plenary 2 Convener: Makoto Oka   Diquarks in lattice QCD tian Francis Spectator effects in inclusive lifetimes of heavy hadrons SU(3) gauge-fermion systems with fundamental flavors
Session   Loca 16:00-16:20 Speaker Anthony Sebast 16:20-16:40 Speaker Joshua Lin 16:40-17:00 Speaker	attion: Plenary 2 Convener: Makoto Oka   Diquarks in lattice QCD tian Francis Spectator effects in inclusive lifetimes of heavy hadrons
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# Wednesday 21 August

14:00-14:30	larrow Spectra in Heavy Quark Systems
Speaker	
Estia Eichten	
14:30-15:00	
-	ions in heavy quarkonium high excitations and heavy quarkoniu
hybrids Speaker	
Joan Soto	
15:00-15:30	uark mass dependence of charmed mesons
Speaker	•
Raquel Molina Pera	alta
15:30-16:00	Quarkonium in Lattice QCD
Speaker	
Brian Colquhoun	
Session   Location 16:30-17:00 Resummation	ks: C3bl (Parallel C) on: Plenary 2   Convener: Jia-jun Wu of threshold double logarithms in inclusive production of heav
Session   Location 16:30-17:00 Resummation quarkonium Speaker	on: Plenary 2   Convener: Jia-jun Wu
Session   Location 16:30-17:00 Resummation quarkonium Speaker Hee Sok Chung	on: Plenary 2   Convener: Jia-jun Wu
Session   Location 16:30-17:00 Resummation quarkonium Speaker Hee Sok Chung 17:00-17:30	on: Plenary 2   Convener: Jia-jun Wu of threshold double logarithms in inclusive production of heavy
Session   Location 16:30-17:00 Resummation quarkonium Speaker Hee Sok Chung 17:00-17:30 Resolving neg	on: Plenary 2   Convener: Jia-jun Wu of threshold double logarithms in inclusive production of heavy
Session   Location 16:30-17:00 Resummation quarkonium Speaker Hee Sok Chung 17:00-17:30 Resolving neg factorization Speaker	
Session   Location 16:30-17:00 Resummation quarkonium Speaker Hee Sok Chung 17:00-17:30 Resolving neg factorization	on: Plenary 2   Convener: Jia-jun Wu of threshold double logarithms in inclusive production of heavy
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Session   Location 16:30-17:00 Resummation quarkonium Speaker Hee Sok Chung 17:00-17:30 Resolving neg factorization Speaker AnPing Chen 17:30-17:50	on: Plenary 2   Convener: Jia-jun Wu of threshold double logarithms in inclusive production of heavy
Session   Location 16:30-17:00 Resummation quarkonium Speaker Hee Sok Chung 17:00-17:30 Resolving neg factorization Speaker AnPing Chen 17:30-17:50 Multiplicity-de Speaker	on: Plenary 2   Convener: Jia-jun Wu of threshold double logarithms in inclusive production of heavy jative cross section of quarkonium hadroproduction using soft g
Session   Location 16:30-17:00 Resummation quarkonium Speaker Hee Sok Chung 17:00-17:30 Resolving neg factorization Speaker AnPing Chen 17:30-17:50 Multiplicity-de	on: Plenary 2   Convener: Jia-jun Wu of threshold double logarithms in inclusive production of heavy jative cross section of quarkonium hadroproduction using soft g
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Session   Location 16:30-17:00 Resummation quarkonium Speaker Hee Sok Chung 17:00-17:30 Resolving neg factorization Speaker AnPing Chen 17:30-17:50 Multiplicity-de Speaker Jake Lane 17:50-18:10	on: Plenary 2   Convener: Jia-jun Wu of threshold double logarithms in inclusive production of heavy jative cross section of quarkonium hadroproduction using soft g

18:10-	
Quarko NNLO	onium Productions in \$e^+ e^-\$ Collider with their QCD calculations up to
Speake	r
Prof. Jiar	ixiong Wang
-	V Quarks: C3bII (Parallel C)   Location: M3   Convener: Christopher Thomas
16:30-	
factori	zed two-loop QCD correction to exclusive double-J/psi production at the B es
Speake	
Wen-Lor	ig Sang
17:00-	17:30 Study of X(2370) at BESIII
Speake	
Dr Peng	
17:30-	17:50 First observation of the eta->4 mu decay with the CMS detector
Speake Prof. Rol	<b>r</b> perto Rossin
17:50-	18:10 Lee-Yang zeros in heavy-quark QCD
Speake	
мазакту	o Kitazawa
18:10-	18:30
	hreshold Heavy-Strange mesons from Lattice QCD and Hamiltonian
	ve Field Theory
Speake	r UAN WANG
GUANG	

# Thursday 22 August

Session   Location: Plenary 2   Convener: Thomas Mehen 14:00-14:30 Tcc from finite volume energy levels: the left-hand cut problem and its solution Speaker Lu Meng 14:30-15:00 Quarkonium Polarization Transport in Medium from Open Quantum Systems and Effective Field Theories Speaker Di-Lun Yang 15:00-15:30 Break Heavy Quarks: C4c (Parallel C) Session   Location: Plenary 2   Convener: Dr K. Utku Can	Speaker Tomona Kinugawa         11:20-11:40       Doubly charmed tetraquark Tcc from lattice QCD         Speaker Yan Lyu         11:40-12:00       Mass spectra of doubly charm pentaquark states         Speaker Wei Chen         12:00-12:30       Hadronic Molecule Effective Field Theory for T_cc^++         Speaker Thomas Mehen         12:30-13:00       Study of Tcc and X(3872)         Speaker Jia-jun Wu         Heavy Quarks: C4b (Parallel C) Session   Location: Plenary 2   Convener: Thomas Mehen         14:00-14:30         Tcc from finite volume energy levels: the left-hand cut problem and its solut         Speaker Lu Meng	<b>Speaker</b> Tomona Kinugawa	cture of \$T_{cc}\$ and \$X(3872)\$ by using compositeness
Tomona Kinugawa         11:20-11:40       Doubly charmed tetraquark Tcc from lattice QCD         Speaker         Yan Lyu         11:40-12:00         Mass spectra of doubly charm pentaquark states         Speaker         Wei Chen         12:00-12:30         Hadronic Molecule Effective Field Theory for T_cc^++         Speaker         Thomas Mehen         12:30-13:00         Study of Tcc and X(3872)         Speaker         Jia-Jun Wu    Heavy Quarks: C4b (Parallel C) Session   Location: Plenary 2   Convener: Thomas Mehen          14:00-14:30         Tcc from finite volume energy levels: the left-hand cut problem and its solution         Speaker         Lu Meng         14:30-15:00         Quarkonium Polarization Transport in Medium from Open Quantum Systems and       Speaker         DHLun Yang         15:00-15:30       Break	Tomona Kinugawa         11:20-11:40       Doubly charmed tetraquark Tcc from lattice QCD         Speaker         Yan Lyu         11:40-12:00         Mass spectra of doubly charm pentaquark states         Speaker         Wei Chen         12:00-12:30         Hadronic Molecule Effective Field Theory for T_cc^+         Speaker         Thomas Mehen         12:30-13:00         Study of Tcc and X(3872)         Speaker         Jia-jun Wu         Heavy Quarks: C4b (Parallel C)         Session   Location: Plenary 2   Convener: Thomas Mehen         14:00-14:30         Tcc from finite volume energy levels: the left-hand cut problem and its solut         Speaker         Lu Meng	Tomona Kinugawa	
Speaker Yan Lyu         11:40-12:00       Mass spectra of doubly charm pentaquark states         Speaker Wei Chen         12:00-12:30       Hadronic Molecule Effective Field Theory for T_cc^++         Speaker Thomas Mehen         12:30-13:00       Study of Tcc and X(3872)         Speaker Jia-jun Wu         Heavy Quarks: C4b (Parallel C)         Session   Location: Plenary 2   Convener: Thomas Mehen         14:00-14:30         Tcc from finite volume energy levels: the left-hand cut problem and its solution         Speaker Lu Meng         14:30-15:00         Quarkonium Polarization Transport in Medium from Open Quantum Systems at Effective Field Theories         Speaker D-Lun Yang         15:00-15:30       Break         Heavy Quarks: C4c (Parallel C)         Session   Location: Plenary 2   Convener: Dr K, Utku Can	Speaker Yan Lyu         11:40-12:00       Mass spectra of doubly charm pentaquark states         Speaker Wei Chen         12:00-12:30       Hadronic Molecule Effective Field Theory for T_cc^+         Speaker Thomas Mehen         12:30-13:00       Study of Tcc and X(3872)         Speaker Jia-jun Wu         Heavy Quarks: C4b (Parallel C)         Session   Location: Plenary 2   Convener: Thomas Mehen         14:00-14:30         Tcc from finite volume energy levels: the left-hand cut problem and its solut         Speaker Lu Meng	11:20-11:40	a
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Speaker Wei Chen         12:00-12:30       Hadronic Molecule Effective Field Theory for T_cc^+         Speaker Thomas Mehen         12:30-13:00       Study of Tcc and X(3872)         Speaker Jia-jun Wu         Heavy Quarks: C4b (Parallel C)         Session   Location: Plenary 2   Convener: Thomas Mehen         14:00-14:30         Tcc from finite volume energy levels: the left-hand cut problem and its solution         Speaker Lu Meng         14:30-15:00         Quarkonium Polarization Transport in Medium from Open Quantum Systems and Effective Field Theories         Speaker Di-tun Yang         15:00-15:30       Break         Heavy Quarks: C4c (Parallel C)         Session   Location: Plenary 2   Convener: Dr K. Utku Can	Speaker Wei Chen         12:00-12:30       Hadronic Molecule Effective Field Theory for T_cc^+         Speaker Thomas Mehen         12:30-13:00       Study of Tcc and X(3872)         Speaker Jia-jun Wu         Heavy Quarks: C4b (Parallel C) Session   Location: Plenary 2   Convener: Thomas Mehen         14:00-14:30         Tcc from finite volume energy levels: the left-hand cut problem and its solut Speaker Lu Meng		
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Speaker         Thomas Mehen         12:30-13:00       Study of Tcc and X(3872)         Speaker         ja-jun Wu         Heavy Quarks: C4b (Parallel C)         Session   Location: Plenary 2   Convener: Thomas Mehen         14:00-14:30         Tcc from finite volume energy levels: the left-hand cut problem and its solution         Speaker         Lu Meng         14:30-15:00         Quarkonium Polarization Transport in Medium from Open Quantum Systems at Effective Field Theories         Speaker         D+Lun Yang         15:00-15:30       Break         Heavy Quarks: C4c (Parallel C)         Session   Location: Plenary 2   Convener: Dr K. Utku Can	Speaker         Thomas Mehen         12:30-13:00       Study of Tcc and X(3872)         Speaker         Jia-jun Wu         Heavy Quarks: C4b (Parallel C)         Session   Location: Plenary 2   Convener: Thomas Mehen         14:00-14:30         Tcc from finite volume energy levels: the left-hand cut problem and its solut         Speaker         Lu Meng		
Thomas Mehen  12:30-13:00 Study of Tcc and X(3872) Speaker Jia-jun Wu  Heavy Quarks: C4b (Parallel C) Session   Location: Plenary 2   Convener: Thomas Mehen  14:00-14:30 Tcc from finite volume energy levels: the left-hand cut problem and its solution Speaker Lu Meng  14:30-15:00 Quarkonium Polarization Transport in Medium from Open Quantum Systems a Effective Field Theories Speaker Di-Lun Yang  15:00-15:30 Break  Heavy Quarks: C4c (Parallel C) Session   Location: Plenary 2   Convener: Dr K. Utku Can	Thomas Mehen          12:30-13:00       Study of Tcc and X(3872)         Speaker       Jia-jun Wu         Heavy Quarks: C4b (Parallel C)         Session   Location: Plenary 2   Convener: Thomas Mehen         14:00-14:30         Tcc from finite volume energy levels: the left-hand cut problem and its solut         Speaker         Lu Meng	12:00-12:30	Hadronic Molecule Effective Field Theory for T_cc^+
Speaker Jia-jun Wu         Heavy Quarks: C4b (Parallel C)         Session   Location: Plenary 2   Convener: Thomas Mehen         14:00-14:30         Tcc from finite volume energy levels: the left-hand cut problem and its solution         Speaker Lu Meng         14:30-15:00         Quarkonium Polarization Transport in Medium from Open Quantum Systems a         Effective Field Theories         Speaker Di-Lun Yang         15:00-15:30       Break	Speaker Jia-jun Wu Heavy Quarks: C4b (Parallel C) Session   Location: Plenary 2   Convener: Thomas Mehen 14:00-14:30 Tcc from finite volume energy levels: the left-hand cut problem and its solut Speaker Lu Meng		
Jia-jun Wu Heavy Quarks: C4b (Parallel C) Session   Location: Plenary 2   Convener: Thomas Mehen 14:00-14:30 Tcc from finite volume energy levels: the left-hand cut problem and its solution Speaker Lu Meng 14:30-15:00 Quarkonium Polarization Transport in Medium from Open Quantum Systems and Effective Field Theories Speaker Di-Lun Yang 15:00-15:30 Break Heavy Quarks: C4c (Parallel C) Session   Location: Plenary 2   Convener: Dr K. Utku Can	Jia-jun Wu Heavy Quarks: C4b (Parallel C) Session   Location: Plenary 2   Convener: Thomas Mehen 14:00-14:30 Tcc from finite volume energy levels: the left-hand cut problem and its solut Speaker Lu Meng	12:30-13:00	Study of Tcc and X(3872)
Heavy Quarks: C4b (Parallel C) Session   Location: Plenary 2   Convener: Thomas Mehen 14:00-14:30 Tcc from finite volume energy levels: the left-hand cut problem and its solution Speaker Lu Meng 14:30-15:00 Quarkonium Polarization Transport in Medium from Open Quantum Systems a Effective Field Theories Speaker Di-Lun Yang 15:00-15:30 Break Heavy Quarks: C4c (Parallel C) Session   Location: Plenary 2   Convener: Dr K. Utku Can	Heavy Quarks: C4b (Parallel C) Session   Location: Plenary 2   Convener: Thomas Mehen 14:00-14:30 Tcc from finite volume energy levels: the left-hand cut problem and its solut Speaker Lu Meng	Speaker	
Session Location: Plenary 2 Convener: Thomas Mehen     14:00-14:30   Tcc from finite volume energy levels: the left-hand cut problem and its solution   Speaker   Lu Meng     14:30-15:00   Quarkonium Polarization Transport in Medium from Open Quantum Systems at   Effective Field Theories   Speaker   Di-Lun Yang     15:00-15:30   Break   Heavy Quarks: C4c (Parallel C) Session   Location: Plenary 2   Convener: Dr K. Utku Can	Session   Location: Plenary 2   Convener: Thomas Mehen         14:00-14:30         Tcc from finite volume energy levels: the left-hand cut problem and its solut         Speaker         Lu Meng	jia-jun wu	
Tcc from finite volume energy levels: the left-hand cut problem and its solution         Speaker         Lu Meng         14:30-15:00         Quarkonium Polarization Transport in Medium from Open Quantum Systems at Effective Field Theories         Speaker         Di-Lun Yang         15:00-15:30         Break         Heavy Quarks: C4c (Parallel C)         Session   Location: Plenary 2   Convener: Dr K. Utku Can	Tcc from finite volume energy levels: the left-hand cut problem and its solut Speaker Lu Meng		
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Lu Meng 14:30-15:00 Quarkonium Polarization Transport in Medium from Open Quantum Systems a Effective Field Theories Speaker Di-Lun Yang 15:00-15:30 Break Heavy Quarks: C4c (Parallel C) Session   Location: Plenary 2   Convener: Dr K. Utku Can	Lu Meng		e volume energy levels: the left-hand cut problem and its solutio
Quarkonium Polarization Transport in Medium from Open Quantum Systems a   Effective Field Theories   Speaker   Di-Lun Yang   15:00-15:30   Break   Heavy Quarks: C4c (Parallel C) Session   Location: Plenary 2   Convener: Dr K. Utku Can	14:30-15:00	-	
Quarkonium Polarization Transport in Medium from Open Quantum Systems a   Effective Field Theories   Speaker   Di-Lun Yang   15:00-15:30   Break   Heavy Quarks: C4c (Parallel C) Session   Location: Plenary 2   Convener: Dr K. Utku Can		-	
Di-Lun Yang 15:00-15:30 Break Heavy Quarks: C4c (Parallel C) Session   Location: Plenary 2   Convener: Dr K. Utku Can			
Heavy Quarks: C4c (Parallel C) Session   Location: Plenary 2   Convener: Dr K. Utku Can	•	14:30-15:00 Quarkonium	
Session   Location: Plenary 2   Convener: Dr K. Utku Can	15:00-15:30 Break	14:30-15:00 Quarkonium Effective Fiel Speaker	
Session   Location: Plenary 2   Convener: Dr K. Utku Can		14:30-15:00 Quarkonium Effective Fiel Speaker Di-Lun Yang	Break
	Heavy Quarks: C/c (Parallel C)	14:30-15:00 Quarkonium Effective Fiel Speaker Di-Lun Yang	Break
16:00-16:30	Session   Location: Plenary 2   Convener: Dr K. Utku Can	14:30-15:00 Quarkonium Effective Fiel Speaker Di-Lun Yang 15:00-15:30	rks: C4c (Parallel C)

	<b>Speaker</b> Kotaro Shirotori
	16:30-16:50 Di-J/psi structures from the quark Pauli-blocking effect
	<b>Speaker</b> Sachiko Takeuchi
	16:50-17:10 Heavy meson LCDA from lattice QCD
	<b>Speaker</b> Wei Wang
17:30	17:10-17:30 Break (no talks)