## **Emergent mass and its consequences in the Standard Model**

ECT\* workshop program, 17–21 September 2018

	Monday	
09:00-09:30	Registration	
09:30-09:45	Welcome Address by Craig Roberts	
Chair: Craig l	Roberts	
09:45-10:30	Pion and Kaon Structure at an EIC	Rolf Ent
10:30-11:00	Coffee Break	
11:00-11:45	Emergent Hadron Mass from Light-Front Holography and Superconformal Quantum Mechanics	Stanley Brodsky
11:45-12:30	Three-gluon vertex: the new frontier	Joannis Papavassiliou
12:30-14:30	Lunch	
Chair: Joanni	s Papavassiliou	
14:30-15:15	Origin of proton mass and quarkonium in nuclei	Gaston Krein
15:15-16:00	Emergent phenomena in strong dynamics	Daniele Binosi
16:00-16:30	Coffee break	
	Tuesday	
Chair: Rolf E	·	
Chair: Rolf En	·	Ralf Gothe
	nt	
09:00-09:45	Experimental Access to the Emergence of Mass	Ralf Gothe Craig Roberts
09:00-09:45 09:45-10:30	Experimental Access to the Emergence of Mass  QCD: Carrying Our Weight	
09:00-09:45 09:45-10:30 10:30-11:00	Experimental Access to the Emergence of Mass  QCD: Carrying Our Weight  Coffee break	Craig Roberts
09:00-09:45 09:45-10:30 10:30-11:00 11:00-11:45	Experimental Access to the Emergence of Mass  QCD: Carrying Our Weight  Coffee break  Electromagnetic form factors of pseudoscalar mesons	Craig Roberts Lei Chang
09:00-09:45 09:45-10:30 10:30-11:00 11:00-11:45 11:45-12:30	Experimental Access to the Emergence of Mass QCD: Carrying Our Weight Coffee break Electromagnetic form factors of pseudoscalar mesons Nucleon resonances in Compton scattering Lunch	Craig Roberts Lei Chang
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09:00-09:45 09:45-10:30 10:30-11:00 11:00-11:45 11:45-12:30 12:30-14:30  Chair: Cristin 14:30-15:15	Experimental Access to the Emergence of Mass QCD: Carrying Our Weight Coffee break Electromagnetic form factors of pseudoscalar mesons Nucleon resonances in Compton scattering Lunch  Ta Aguilar On the structure of neutral pseudoscalars	Craig Roberts  Lei Chang Gernot Eichmann  Khépani Raya-Montaño

## Wednesday

Chair: Ralf			
09:00-09:45	Producton of heavy quarkonium on the nucleon at threshold: Probing the nucleon mass	Zein-Eddine Meziani	
09:45-10:30	Global properties of baryons from Poincare-covariant analysis	Sixue Qin	
10:30-11:00	Coffee break		
11:00-11:45	Three concepts of the gauge boson mass	Stanislaw Glazek	
11:45-12:30	Quark mass generation with non-Abelian Ball-Chiu vertex	Cristina Aguilar	
12:30-14:30	Lunch		
Chair: Lei Chang			
14:30-15:15	Baryon Structure with PTIR	Cédric Mezrag	
15:15-16:00		_	
	Coffee break		
Thursday			
Chair: Stanislaw Glazek			
	Insight to hadron mass generation from the nucleon resonance electroexcitation	Victor Mokeev	
09:45-10:30		Jan M. Pawlowski	
10:30-11:00	• • • • • • • • • • • • • • • • • • • •	,	
11:00-11:45	Perturbative confinement	Paul Hoyer	
11:45-12:30	On propagators and vertices of Yang-Mills theory from their equations of motion	Markus Huber	
12:30-14:30	Lunch		
Chair: Jan M. Pawlowski			
1420 1515	Deuter Distribution Appelling des of a construction of a construction	Minchel Dine	
	Parton Distribution Amplitudes of s-wave and p-wave heavy quarkonium	Minghui Ding	
	Hadron structure in continuum QCD	Fei Gao	
	Coffee break	Y 110 0	
16:30-17:15	Gluon-mass induced triply heavy baryon masses	Kamil Serafin	
Friday			
Chair: Daniele Binosi			
09:15-10:00	Perturbative Curci-Ferrari model at two-loop order	Marcela Peláez	
10:00-10:30	^		
10:30-11:15	Mass-dependence of pseudoscalar meson elastic form factors	Muyang Chen	
11:15-12:00	Analytic properties of the gluon propagator in a generic covariant gauge	Fabio Siringo	
12:00-14:00	Lunch	-	