



Standard Model: Experimental Tests of QCD

Heavy I	on Collid	ers		
Brookhaven N	lational Lab:			
Relativistic He	avy Ion Colli	der (RHIC)	The state	and the second
Experiments:	STAR, PHEN PHOBOS, B	IIX, RAHMS		√s _{NN}
	Facility	Location	System	Energy (CMS)
	AGS	BNL, New York	Au+Au	2.6-4.3 GeV
	SPS	CERN, Geneva	Pb+Pb	8.6-17.2 GeV
	RHIC	BNL, New York	Au+Au	200 GeV
	LHC	CERN, Geneva	Pb+Pb	5.5 TeV

•	probes for the G	(GP	
Why		What	
Global Observables	Is initial state dense enough?	 Particle Multiplicities Energy Density 	
Collective Behavior	Is QGP a thermalized state?	Hadron Yields Elliptic Flow	
Hard Probes	Formed early, probe medium	Energy loss of jetsCharm production	

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