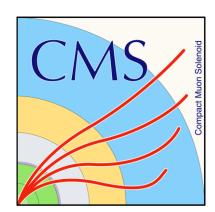
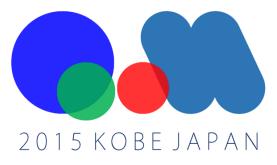
New results from CMS

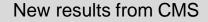
Yen-Jie Lee (MIT) For the CMS collaboration



Quark Matter 2015 Kobe, Japan 27 Sep - 3 Oct, 2015









pp Collisions at 13 TeV



CMS Experiment at the LHC, CERN Data recorded: 2015-Jun-03 08:48:32.279552 GMT Run / Event / LS: 246908 / 77874559 / 86





Yen-Jie Lee (MIT)

New results from CMS

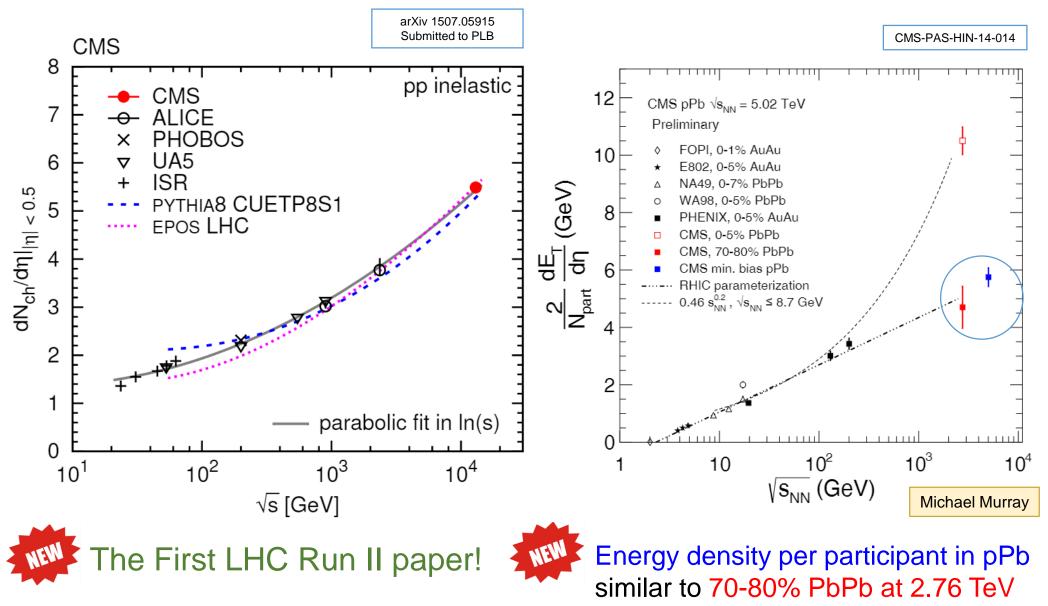




Global Event Properties

Inelastic $dN_{ch}/d\eta$ in pp at 13 TeV

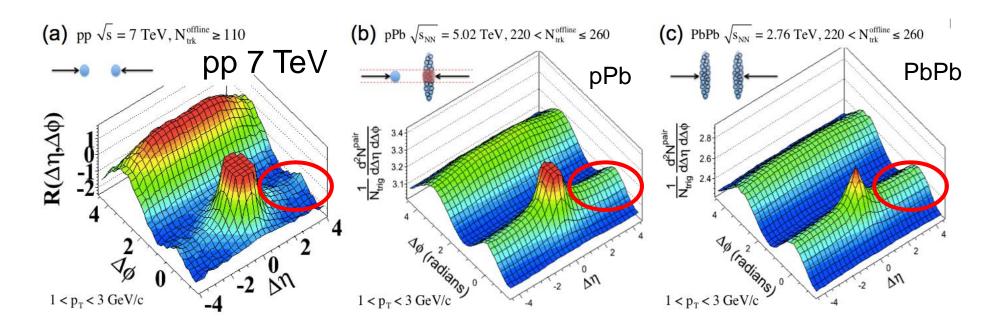
$dE_T/d\eta$ in **pPb** at 5.02 TeV

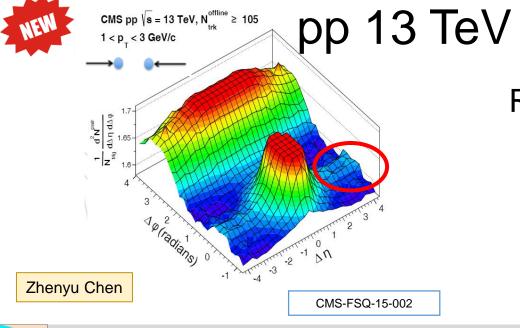




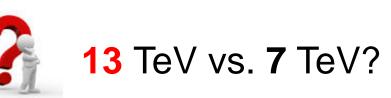


Ridge in pp, pPb and PbPb





Ridge observed in high multiplicity pp collisions at 13 TeV !



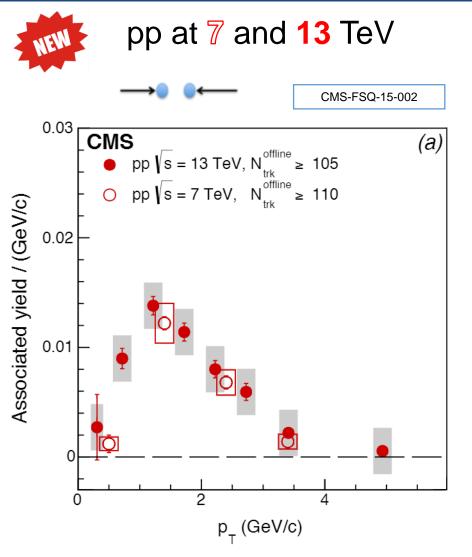


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Ridge / Azimuthal Anisotropy in PP

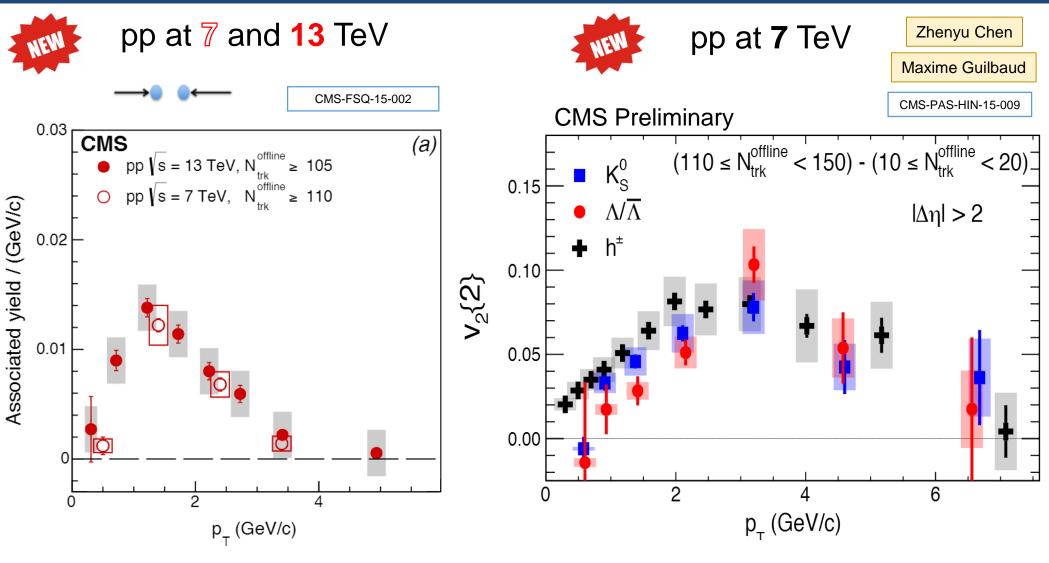


Ridge yields in 7 and 13 TeV pp are similar!





Ridge / Azimuthal Anisotropy in PP



Ridge yields in 7 and 13 TeV pp are similar!

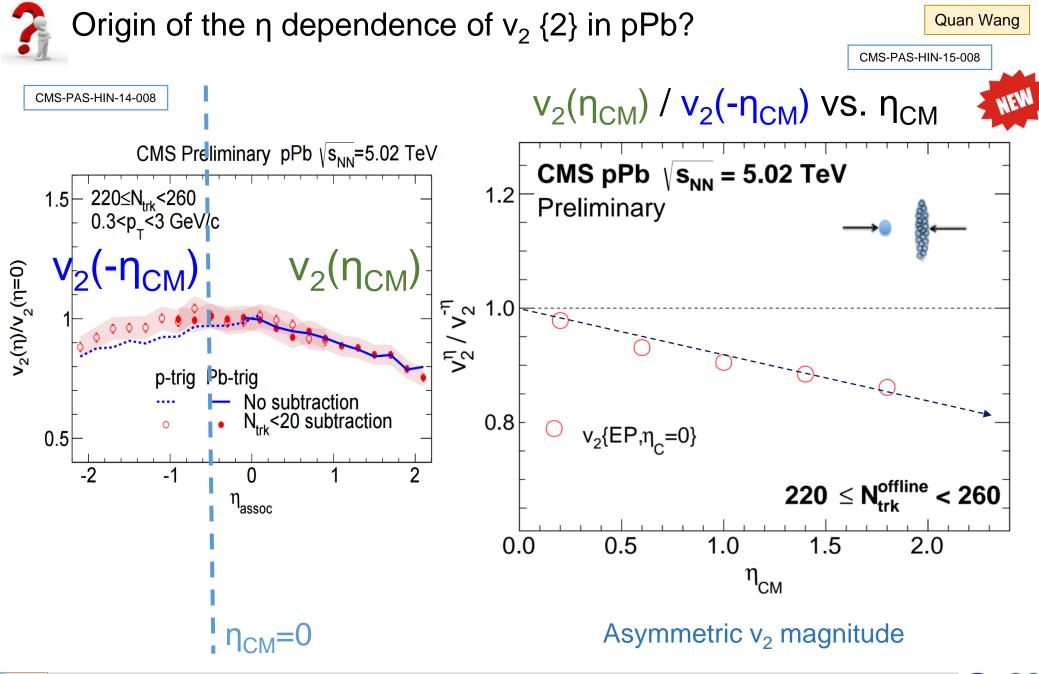
 v_2 {2} of the **charged hadrons**, K_s , Λ

 v_3 {2} and c_2 {4} are measured as well!





v_2 vs. η in pPb



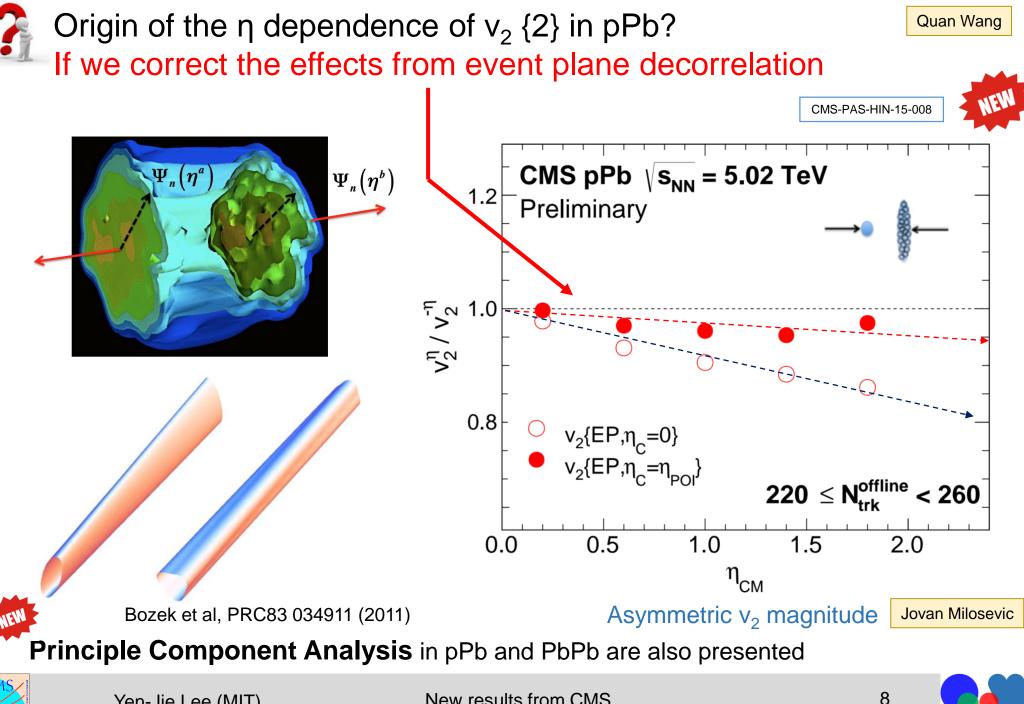


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New results from CMS

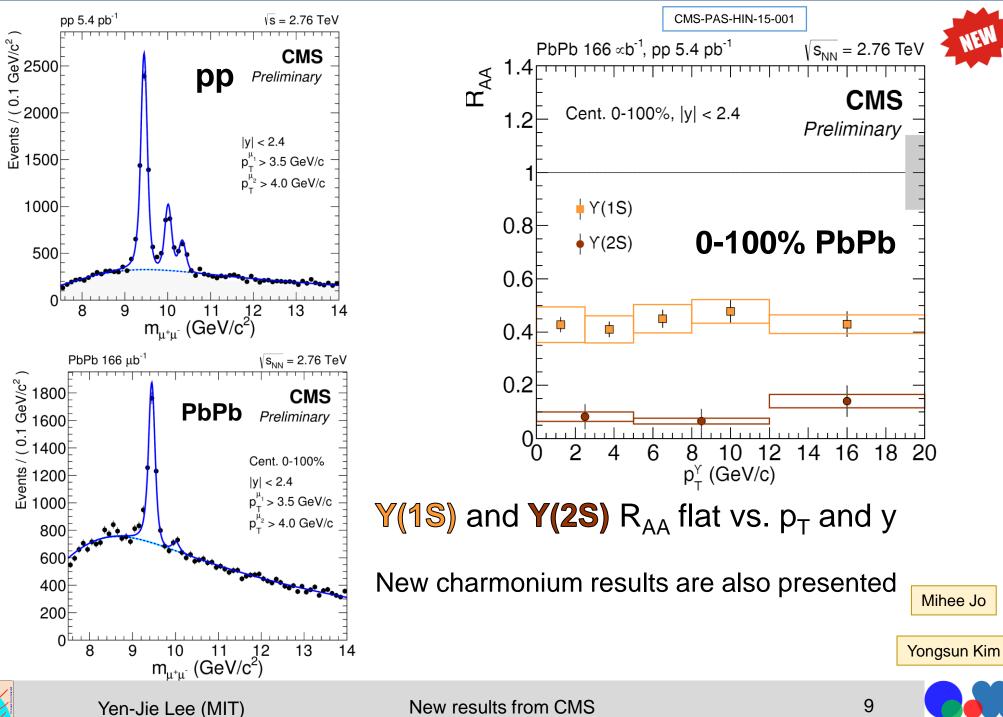


Event Plane Decorrelation in pPb

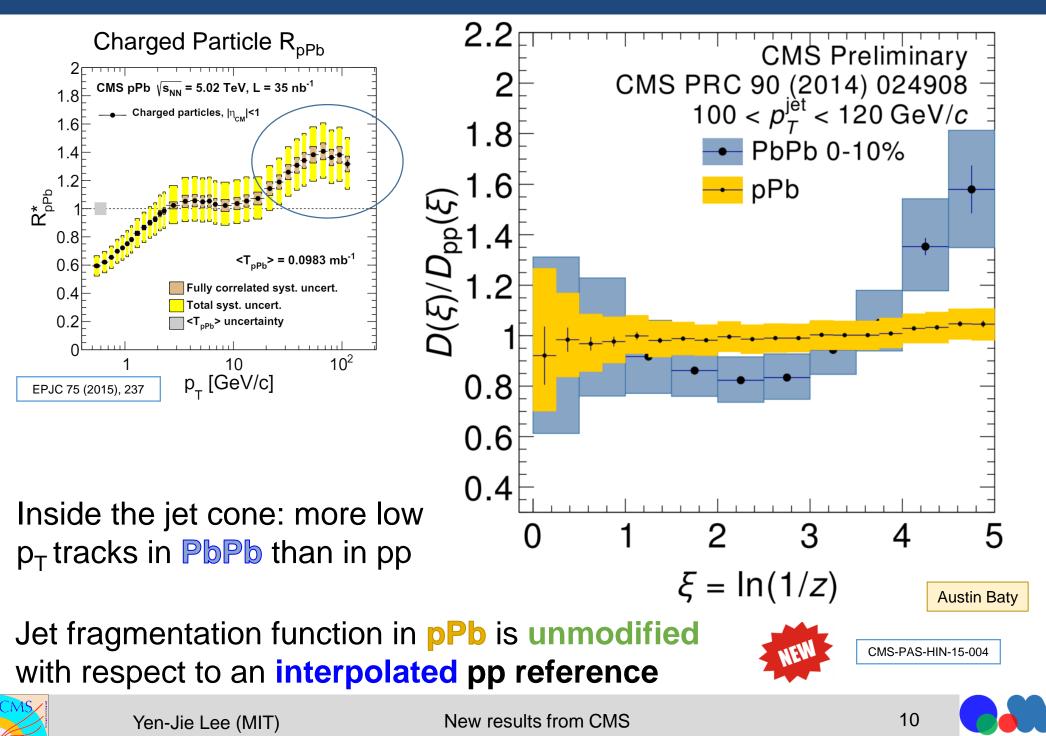


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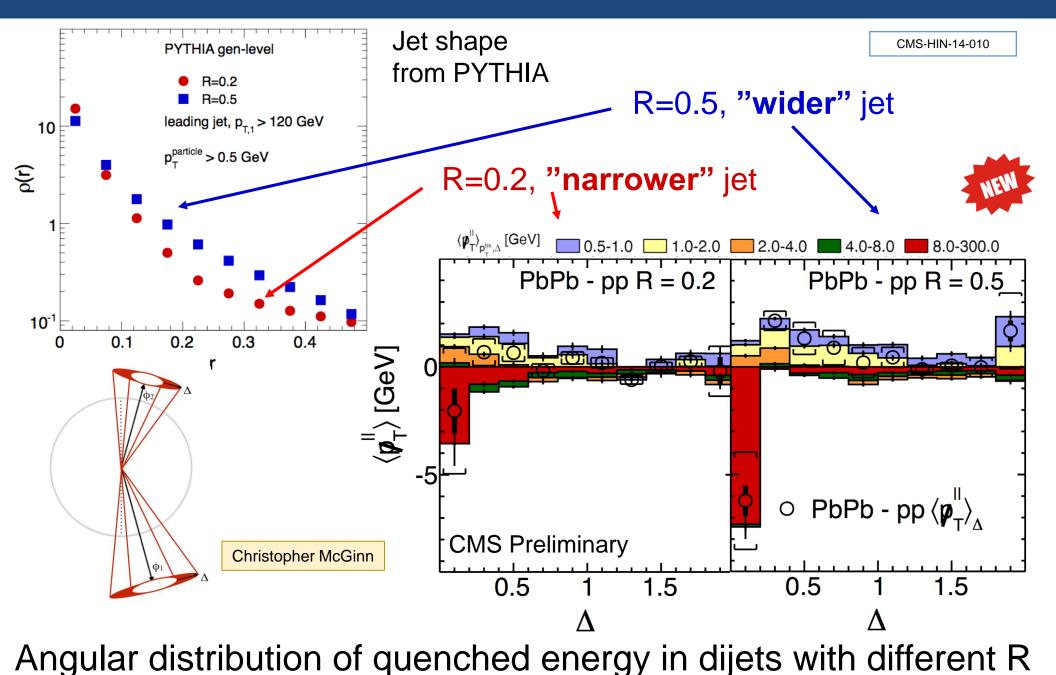
Upsilon Suppression in PbPb



Jet Fragmentation Function in pPb and PbPb



"Shooting Jets with Different Width" through the Medium

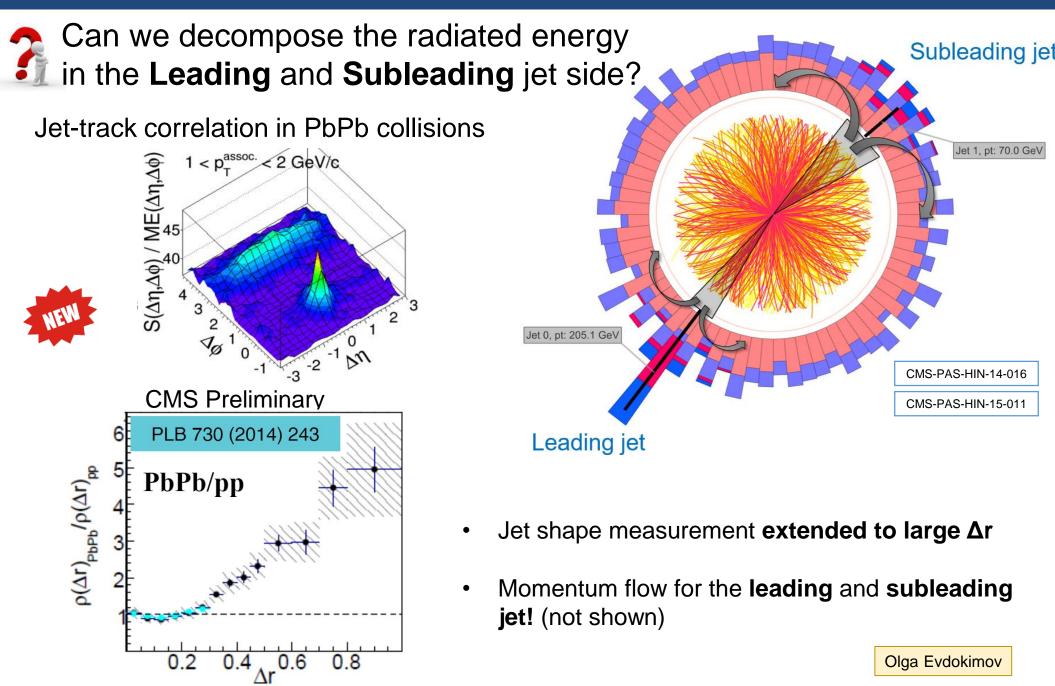


CMS

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Jet-Track Correlation in PbPb





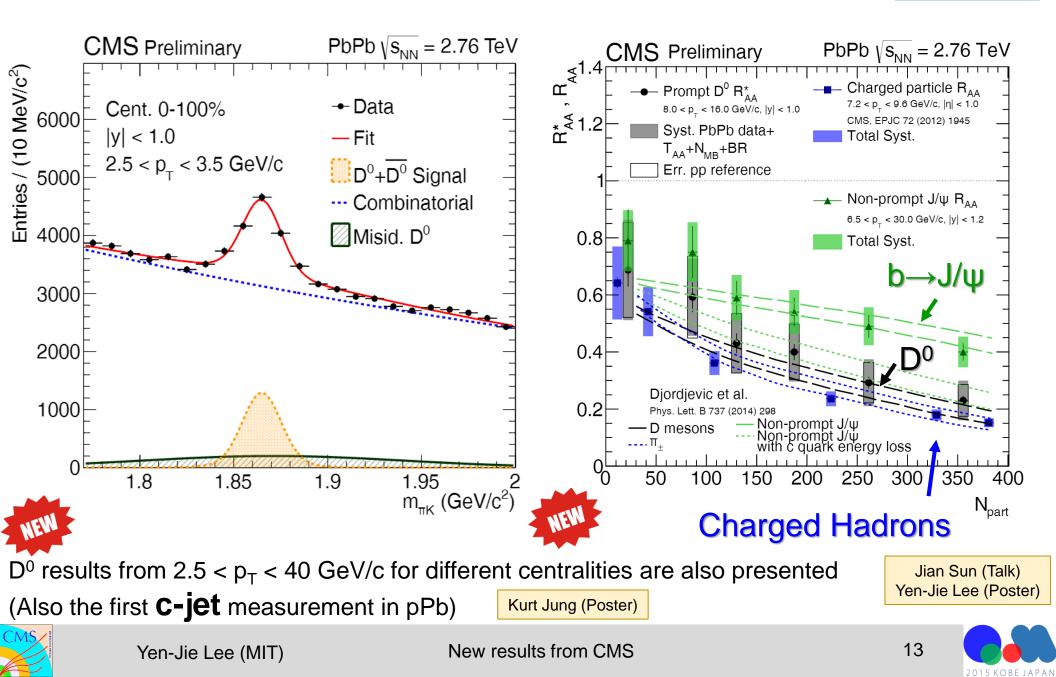
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Flavor Dependence of Jet Quenching

Fully reconstructed $D^0 \rightarrow K^-\pi^+$ over a wide kinematic range

CMS-PAS-HIN-15-005



List of CMS Talks and Posters

Physics	Topics	Talks/Posters
Global observable, collectivity and fluctuation	Transverse-energy flow in pPb	M. Murray
	Multi-particle correlation in pPb	Q. Wang
	Long-range correlation in high-multiplicity pp events	Z. Chen
	Ridges in pp, pPb and PbPb	S. Padula (Poster)
	K_S^0 , Λ , and Ξ in pp, pPb and PbPb	H. Ni
	Multiplicity dependence of Ξ in pp, pPb and PbPb	Z. Tu (Poster)
	Longitudinal fluctuation in PbPb and pPb	M. Guilbaud
	PCA of two-particle correlations in PbPb and pPb	J. Milosevic
Production mechanism and initial state effect (nPDF)	Jet fragmentation in pPb	A. A. Baty
	J/ψ in pPb and PbPb	Y. Kim
	<i>B</i> in pPb	K. Lee (Poster)
	W and Z productions in pp, pPb and PbPb	E. Chapon
Final state effect (Energy loss and melting)	Missing p_T analysis in PbPb	C. McGinn
	Energy balance of the quenched jets in PbPb	O. Evdokimov
	Nuclear modification of jets in PbPb and pPb	R. K. Elayavalli (Poster)
	Y in PbPb and pPb	M. Jo
	Open heavy flavors in PbPb and pPb	J. Sun
	D in PbPb	YJ. Lee (Poster)
	Heavy-flavored jets in PbPb and pPb	K. E. Jung (Poster)





Backup Slides



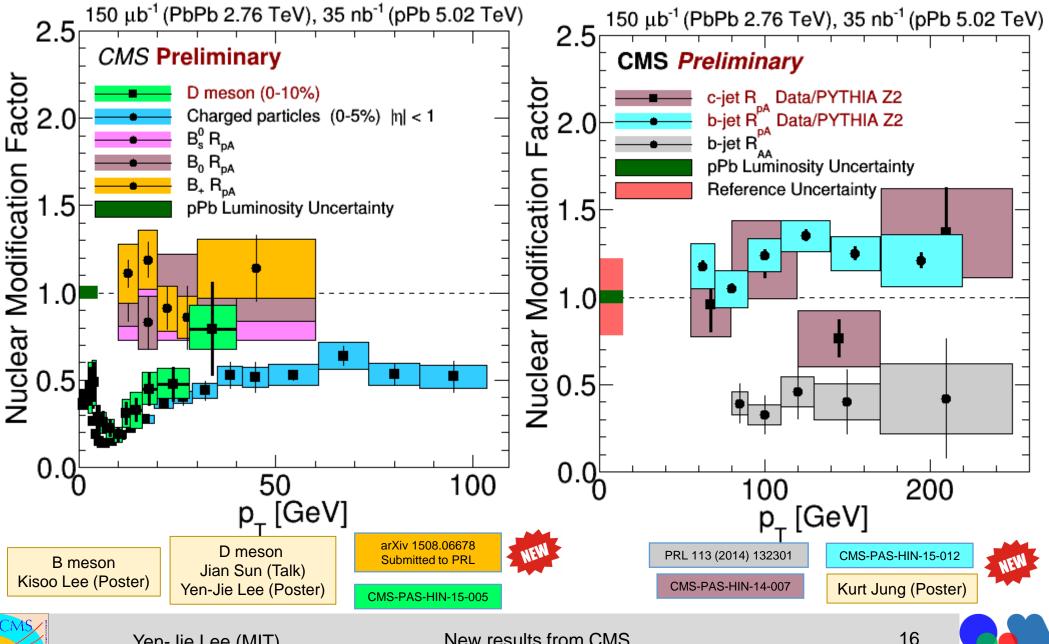
Yen-Jie Lee (MIT)



Heavy Flavor Mesons and Jets



First C-Jet measurement in pPb!



Yen-Jie Lee (MIT)