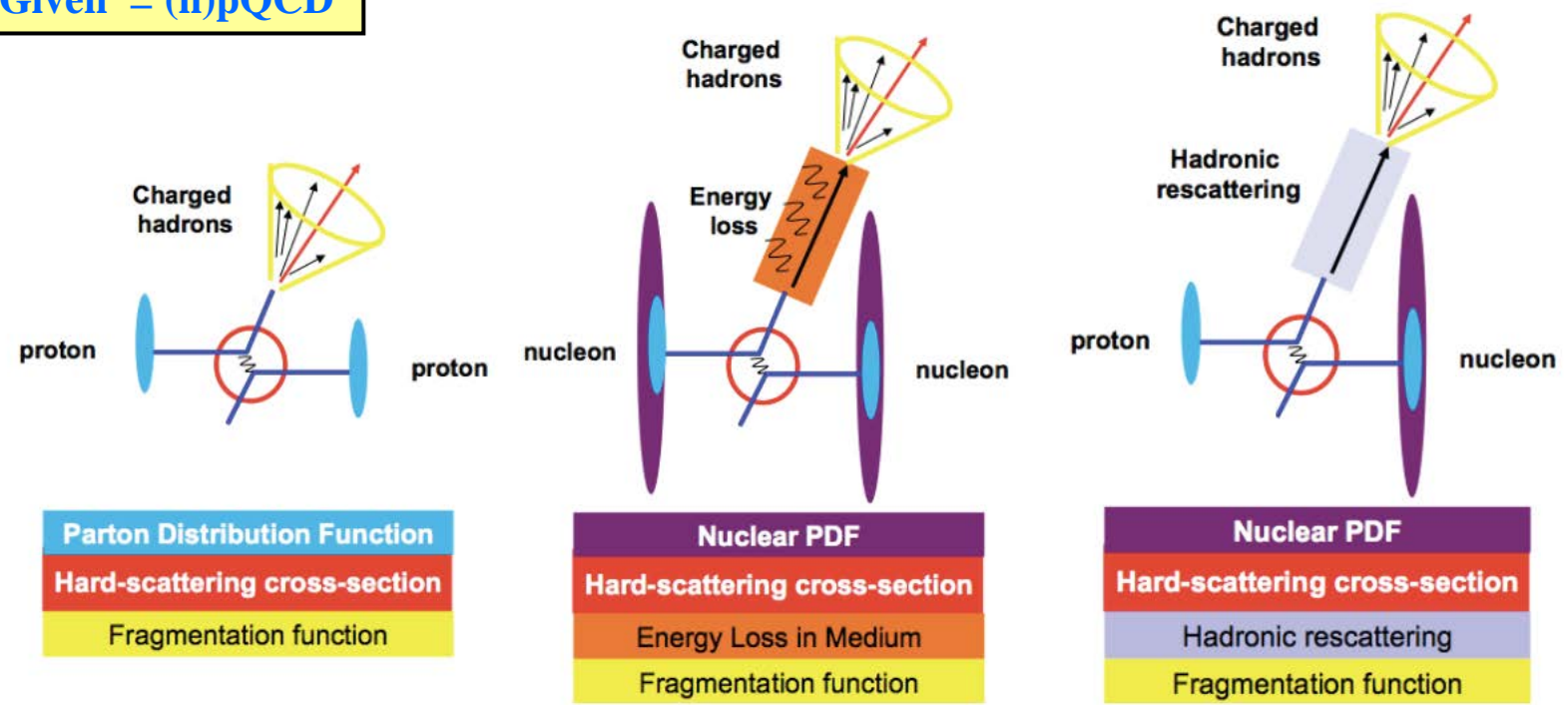


# URHI Paradigm (Modus Operandi)

- large & dense systems = our physics
- small & dilute systems = comparison data

**pp:**  
God Given = (n)pQCD

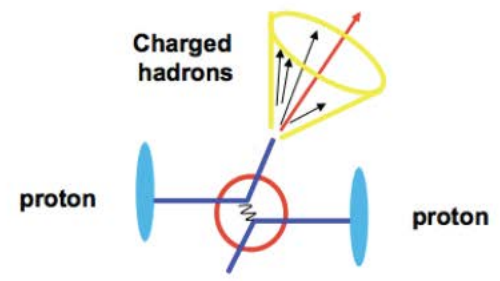


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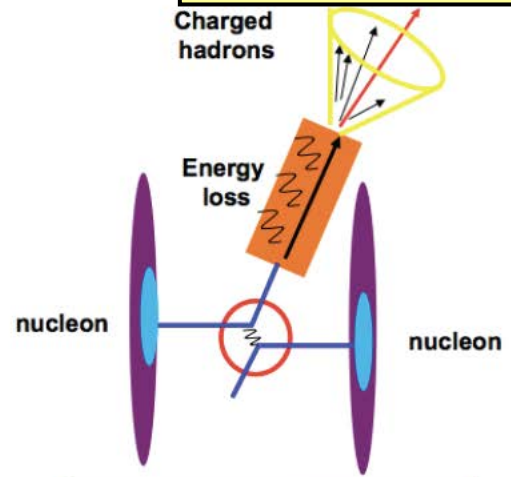
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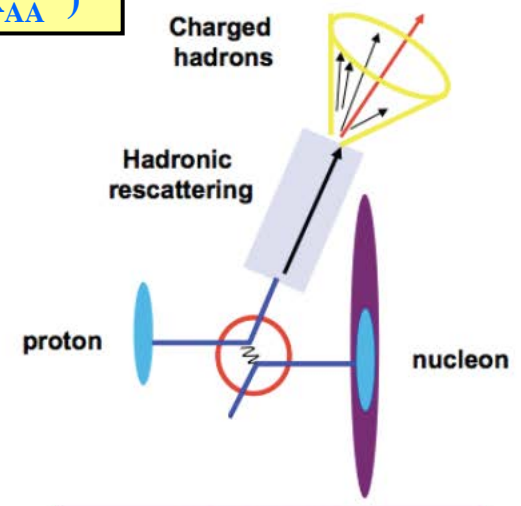
**AA:**  
'Hot Matter'  
modifications ("R<sub>AA</sub>")



Parton Distribution Function  
Hard-scattering cross-section  
Fragmentation function



Nuclear PDF  
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Energy Loss in Medium  
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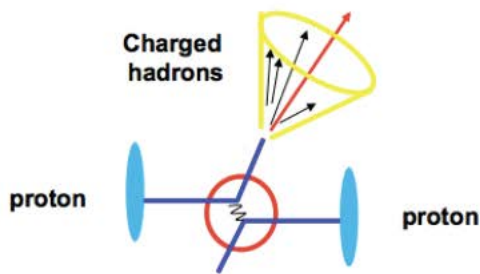
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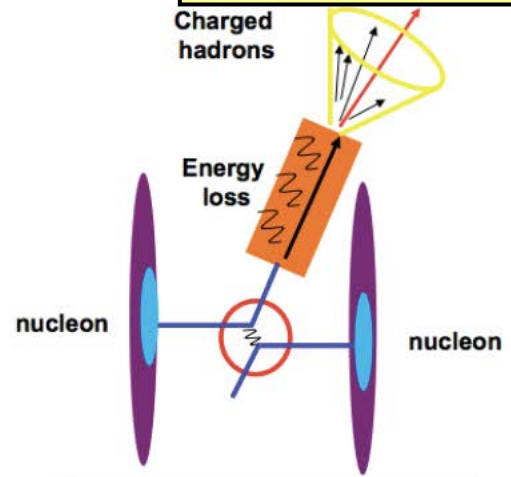
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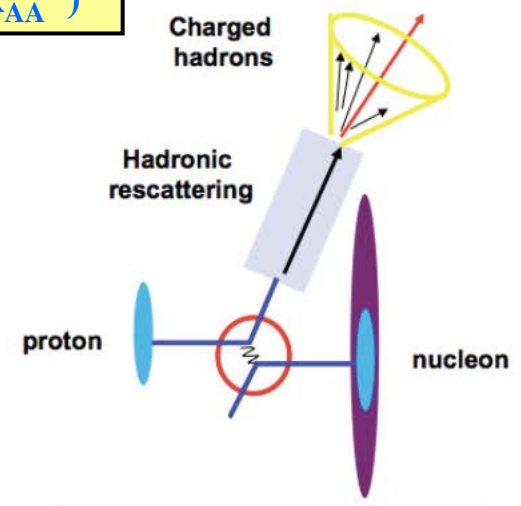
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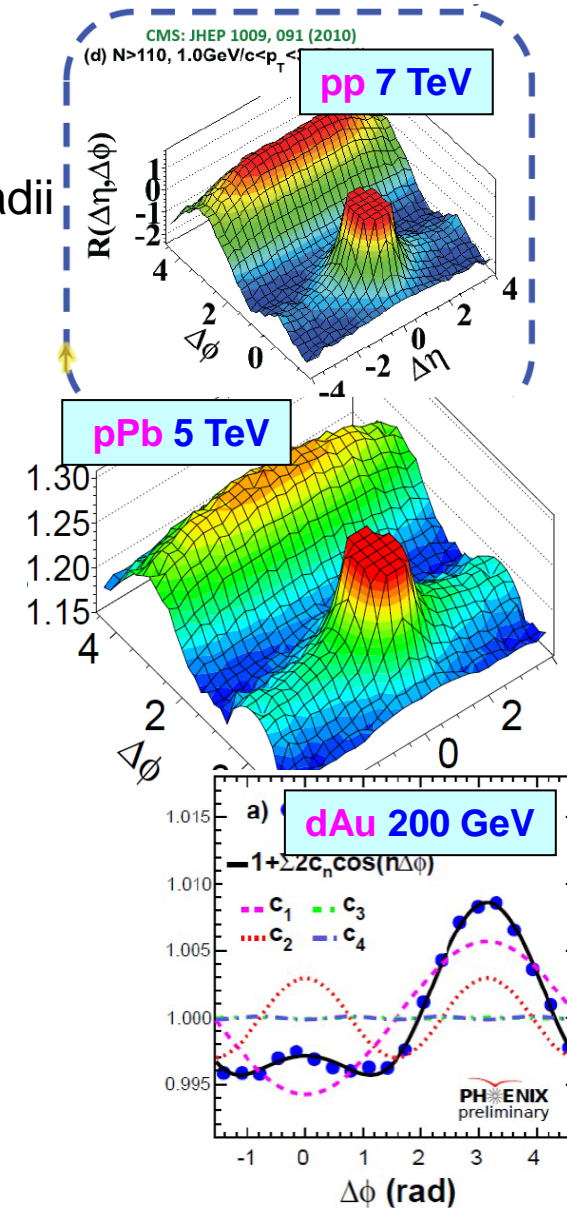
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- with ALL the bells and whistles of elliptic flow (pp, pPb, dAu)

⇒ **collective** ( $v_2\{4\}=v_2\{6\}=v_2\{n\}$ ),  $v_2$ ,  $v_3$ , right amplitude,  $f(b, m, p_T)$ ,

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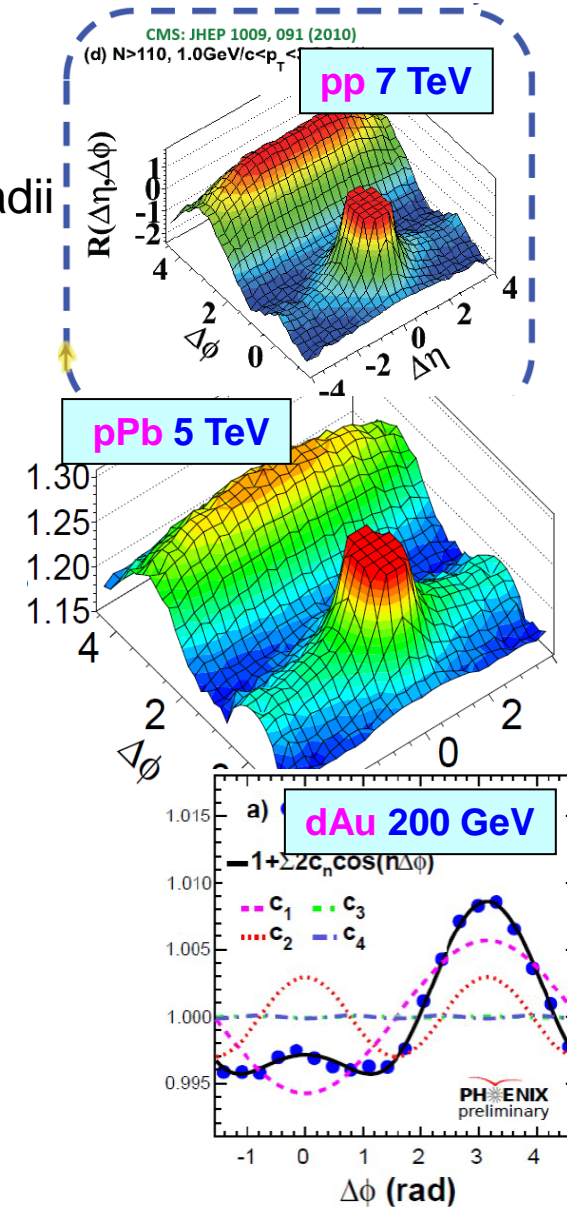
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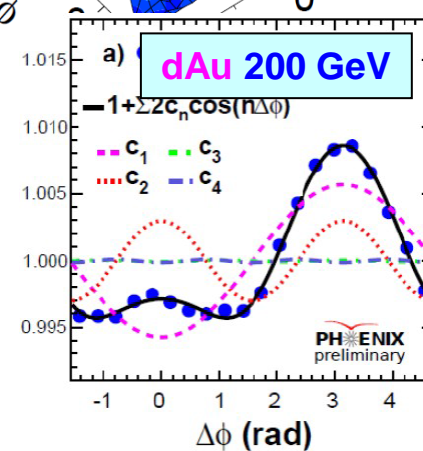
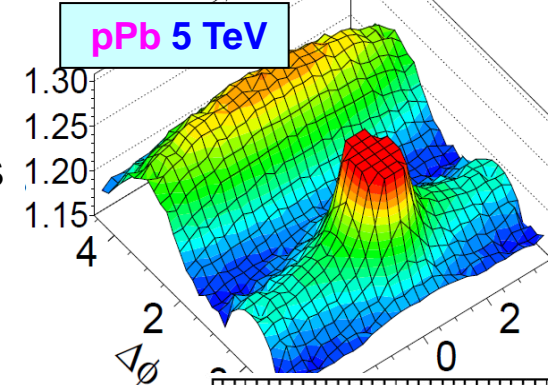
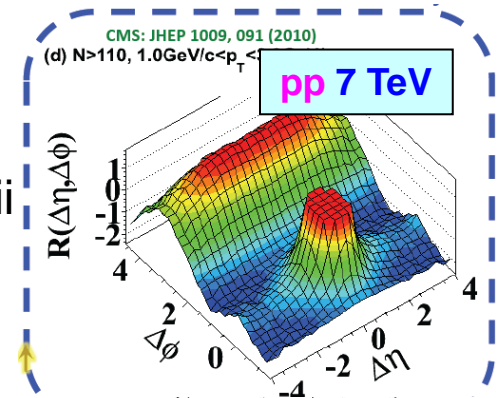
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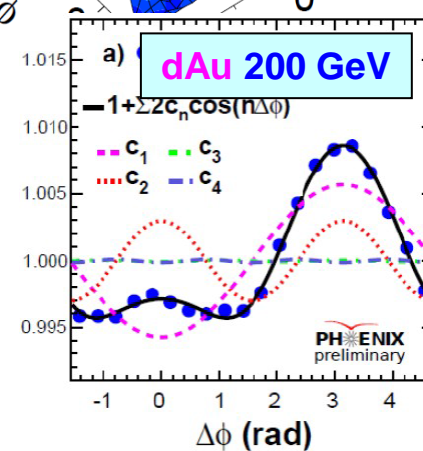
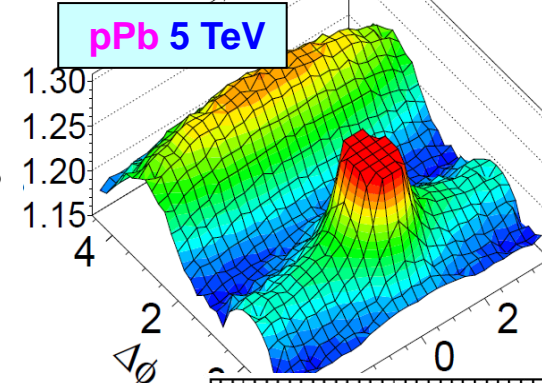
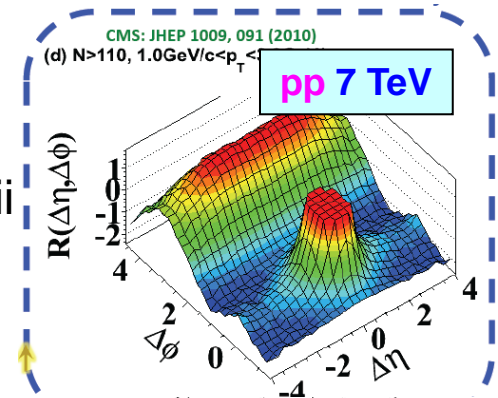
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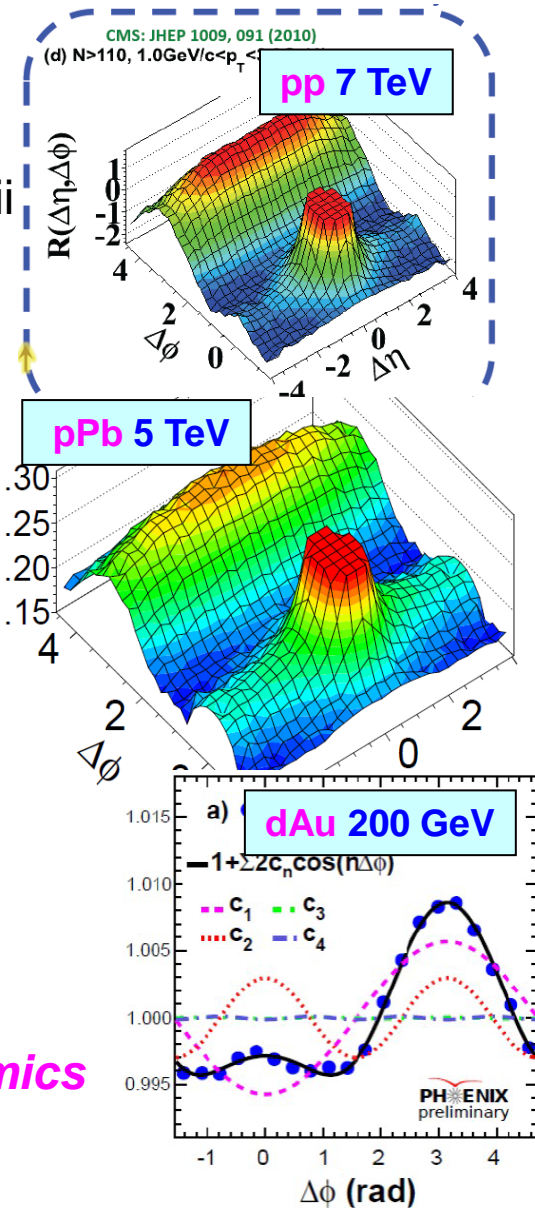
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⇒ smaller systems => **finite size/lifetime** effects

see the **dynamics** at work, rather than (equilibrated) **thermodynamics**

★ Hyperons in pA: sequential strangeness saturation ( $\Lambda, \Xi, \Omega$ )???





# .. towards a new Paradigm ??

- How to respond to these latest revelations ?

⇒ Coherent new set of measurements & theoretical interpretation

- ✦ vary not only **density** ( $dN/dy$ ,  $\sqrt{s}$ ), but also **geometry** ( $r$ , different AB collisions, incl. pp !!)
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**Common and coherent experimental & theoretical** approach to

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from MB **pp/e<sup>+</sup>e<sup>-</sup>** to central **AA**, with **pA** the bridge in between

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