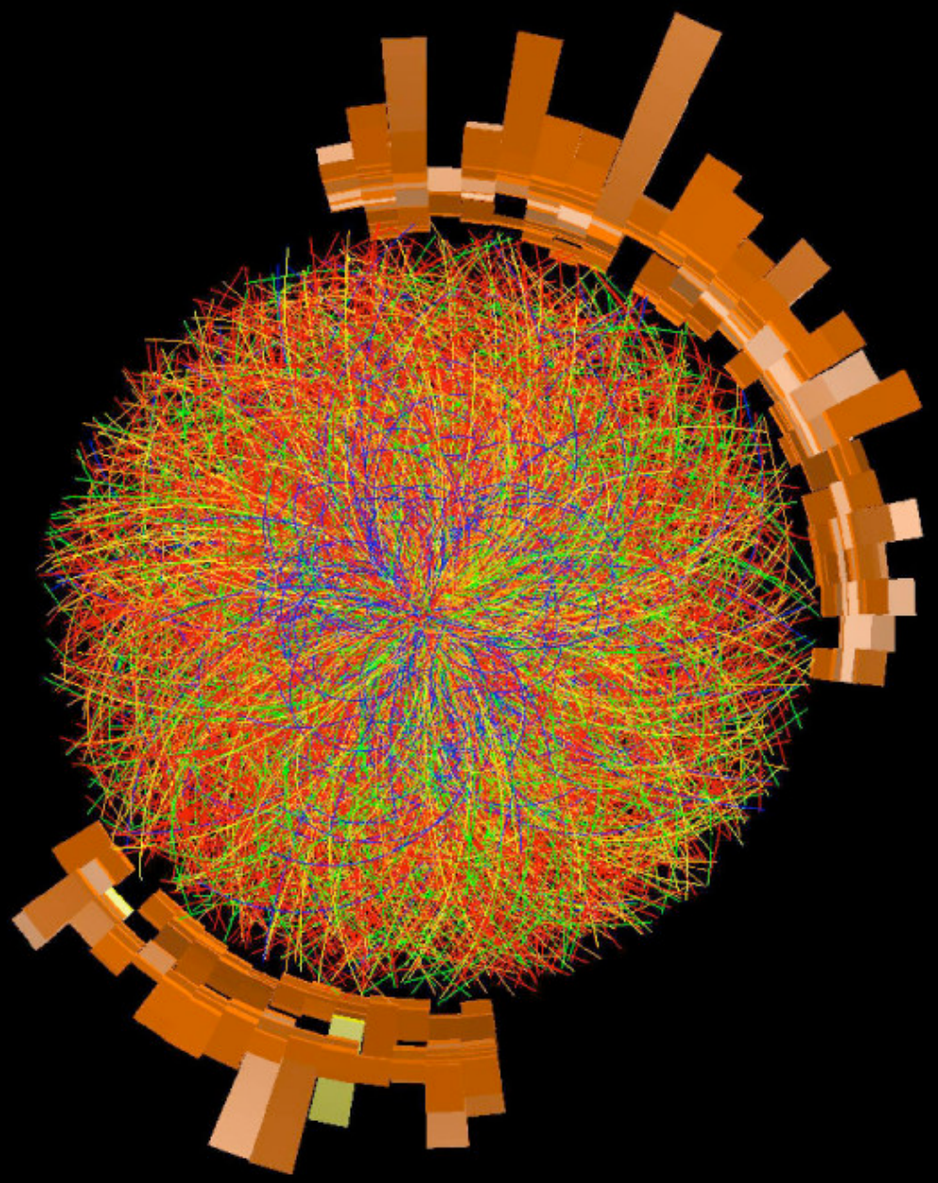
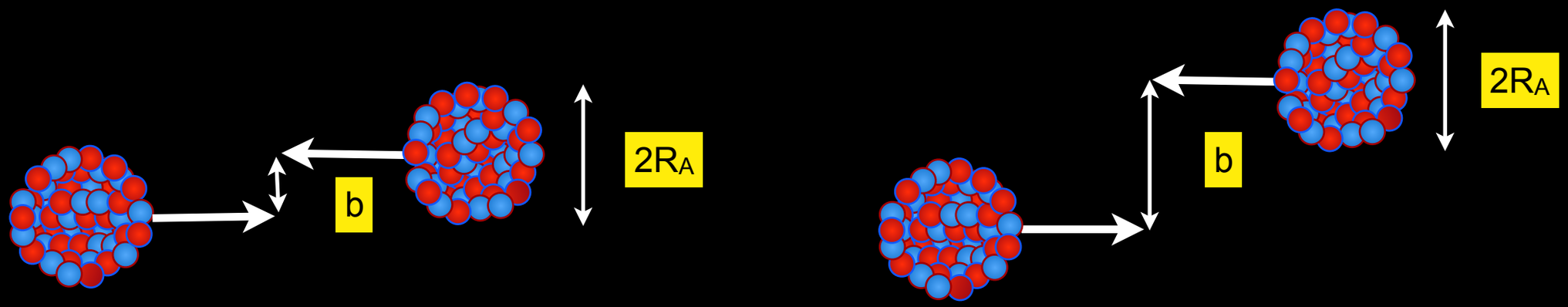
What to be expected from ALICE in 2018



Panos Christakoglou
for the Nikhef/UU ALICE group

What to be expected from ALICE in 2018

Pb-Pb run in November!

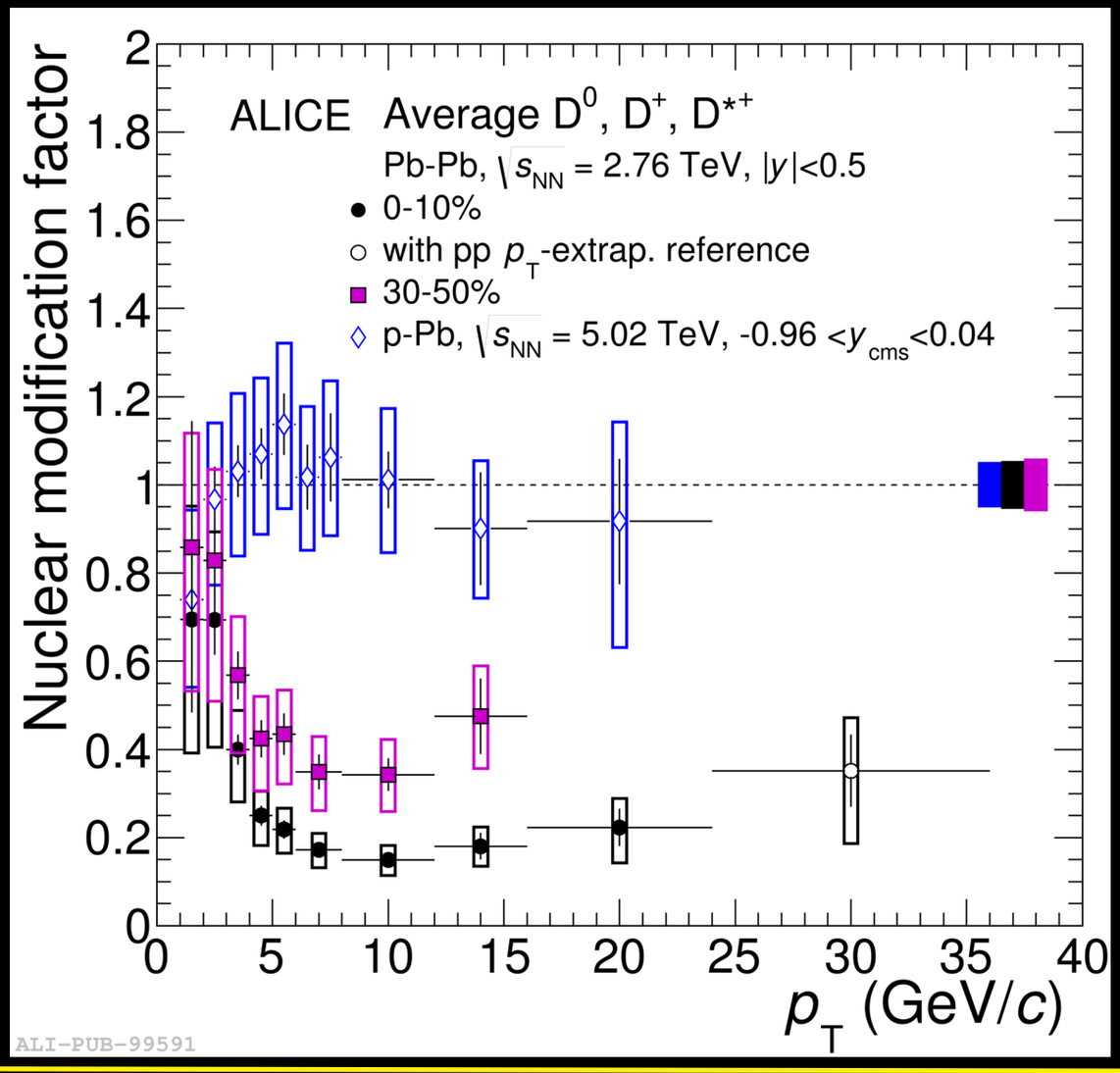


Panos Christakoglou
for the Nikhef/UU ALICE group

Hard probes with run 1 data

And several pp data samples at various energies used for the interpolation…
lacking the pp reference @ 2.76 TeV

System	Year	$\sqrt{s_{NN}}$	N_{events}
pp	2011	2.76	~100x10^6 min. bias
p-Pb	2013	5.02	~200x10^6 min. bias
Pb-Pb	2010	2.76	15x10^6 min. bias
Pb-Pb	2011	2.76	~15x10^6 0-7.5% ~15x10^6 20-50%



$$R_{AA} = \frac{QCD\ medium}{QCD\ vacuum} = \frac{\left(\frac{d^2N}{dp_T d\eta}\right)_{AA}}{N_{coll} \cdot \left(\frac{d^2N}{dp_T d\eta}\right)_{pp}}$$

$$R_{AA} \rightarrow \begin{cases} <1 \\ \simeq 1 \end{cases}$$

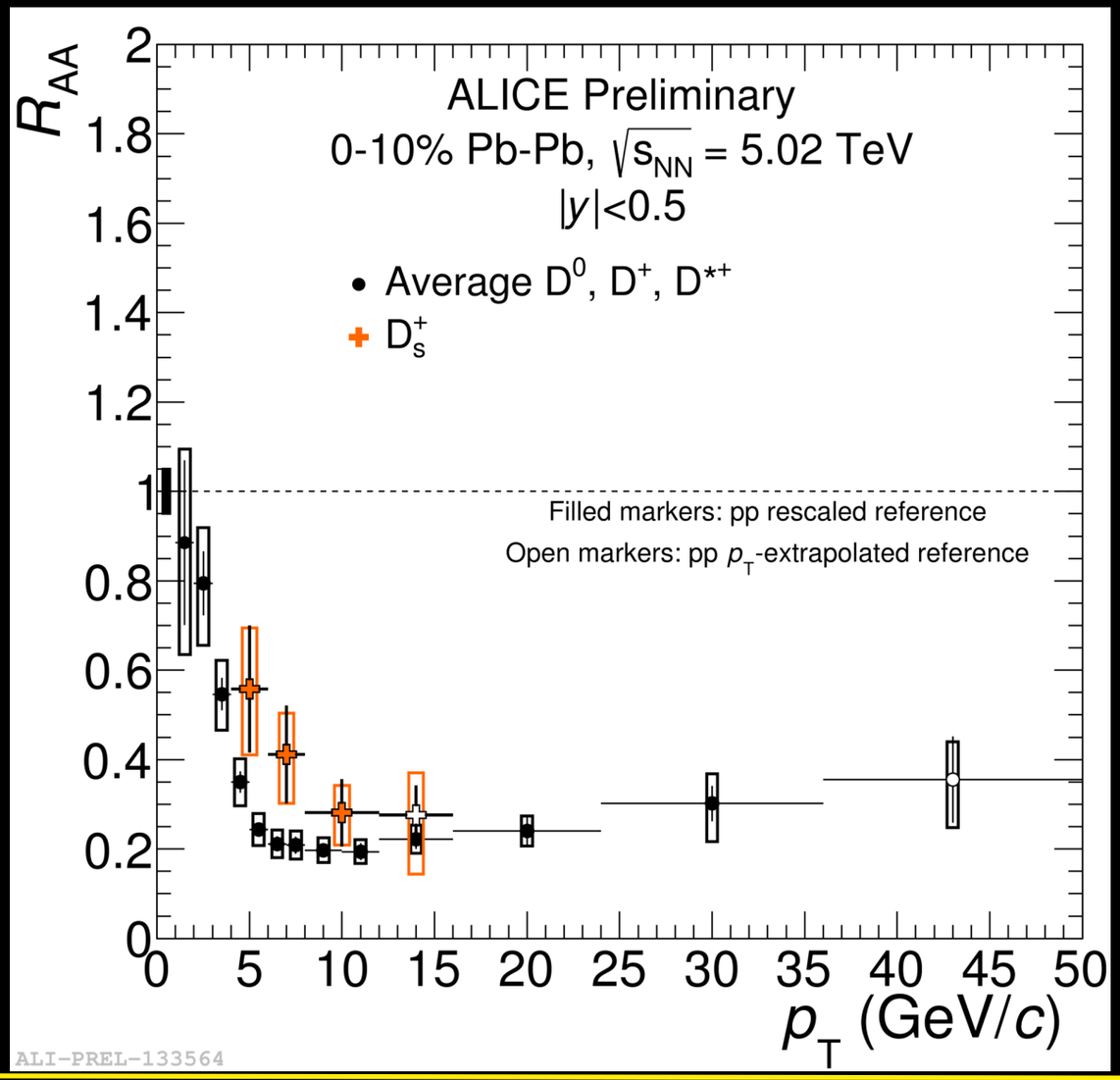
in-medium effects

no in-medium effects

Hard probes with run 2 data

Significant improvement in uncertainties but…
were still lacking the pp reference @ 5.02 TeV

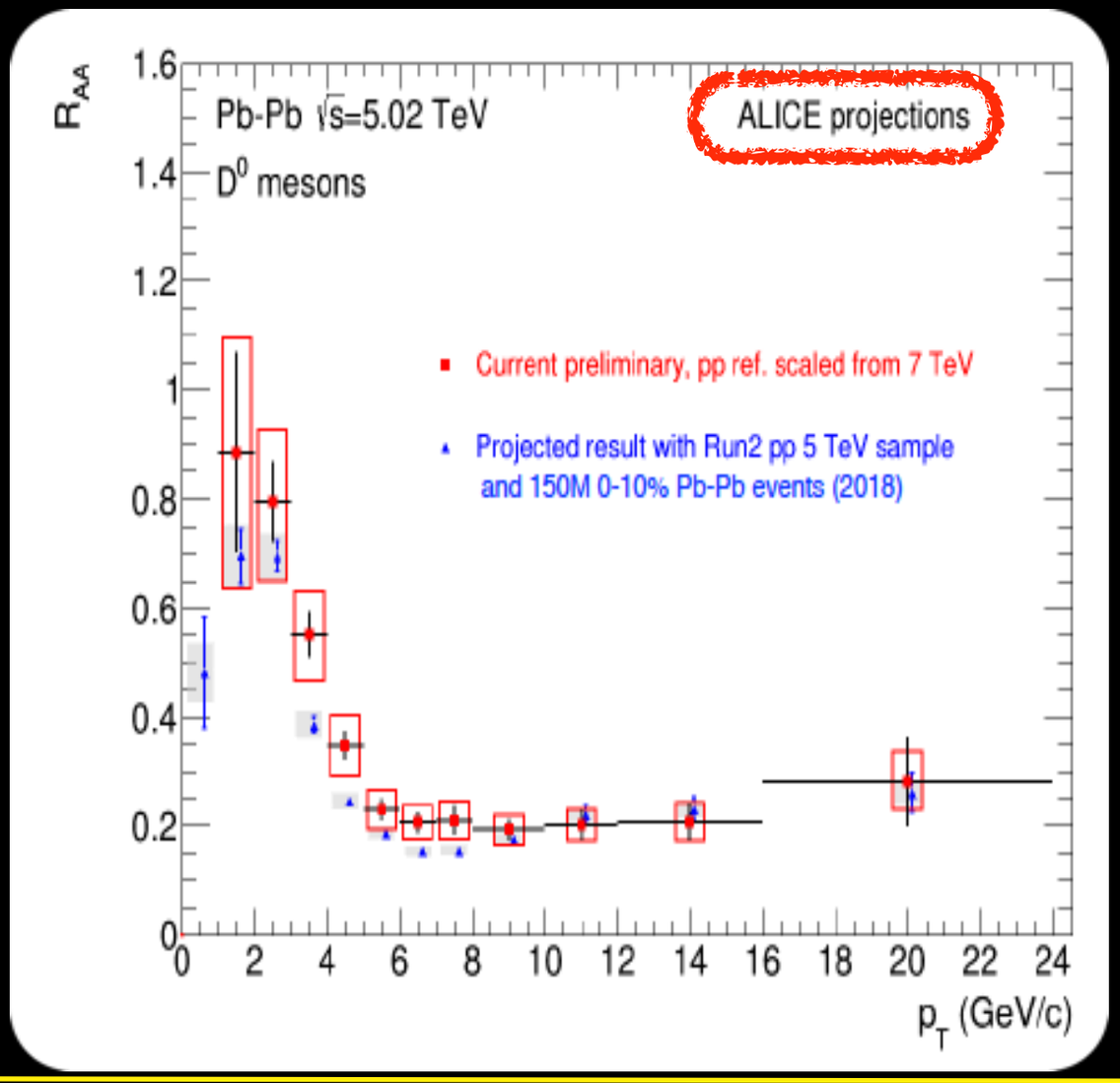
System	Year	$\sqrt{s_{NN}}$	N_{events}
pp	2011	2.76	~100x10^6 min. bias
p-Pb	2013	5.02	~200x10^6 min. bias
Pb-Pb	2010	2.76	15x10^6 min. bias
Pb-Pb	2011	2.76	~15x10^6 0-7.5% ~15x10^6 20-50%
Pb-Pb	2015	5.02	~150x10^6 min. bias



Hard probes with run 2 data + 2018 Pb-Pb run

New as well!!!
Late 2017 run

System	Year	$\sqrt{s_{NN}}$	N_{events}
pp	2011	2.76	~100x10^6 min. bias
p-Pb	2013	5.02	~200x10^6 min. bias
Pb-Pb	2010-2011	2.76	15x10^6 min. bias
Pb-Pb	2011	2.76	~15x10^6 0-7.5% ~15x10^6 20-50%
Pb-Pb	2015	5.02	~150x10^6 min. bias
pp	2017 (4 days)	5.02	~10^9 min bias
Pb-Pb	2018	5.02	250x10^6 0-10% 150x10^6 min. bias



Scheduled for November 2018

Anticipated by many analyses
(soft & hard sectors)


Stay
Tuned!

Backup