

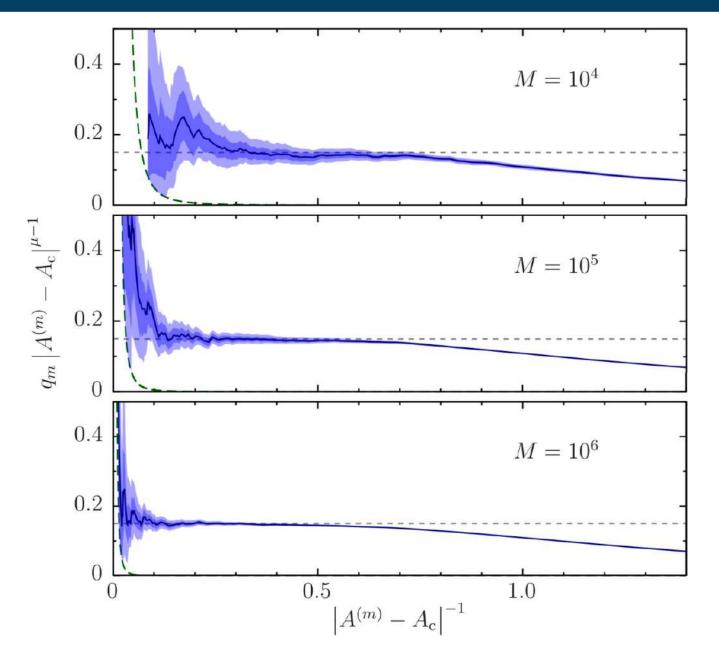


# Tickling the Monte Carlo tail

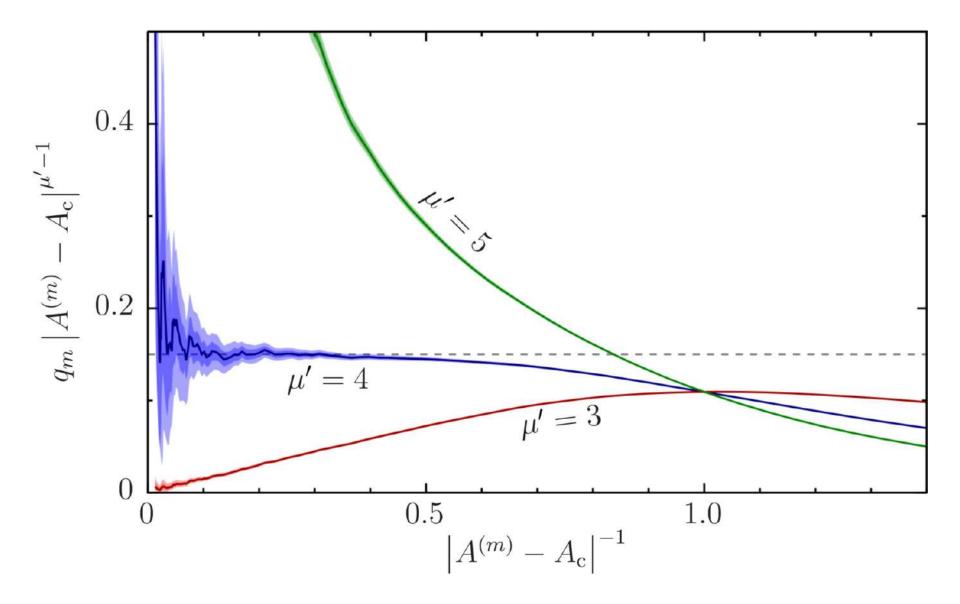
### Pablo López Ríos and Gareth Conduit

Theory of Condensed Matter group

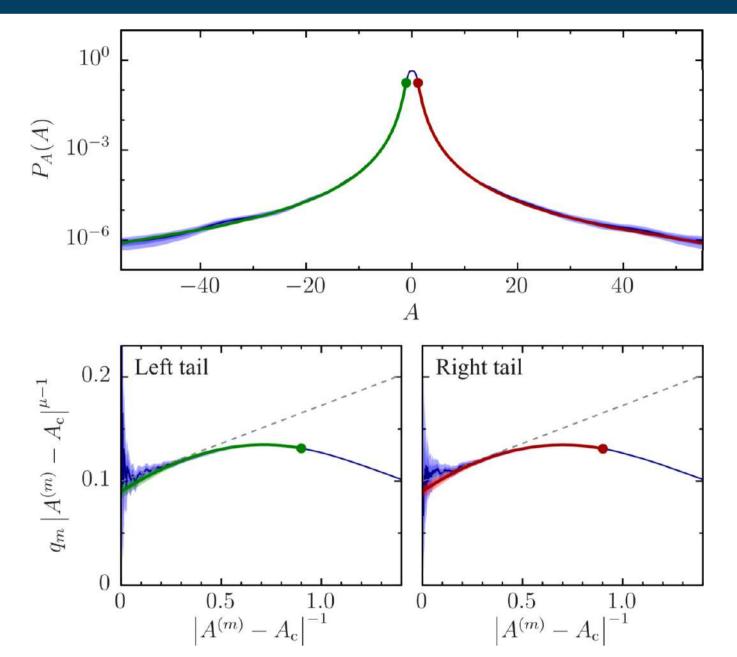
### Tail of $H_4(A)$



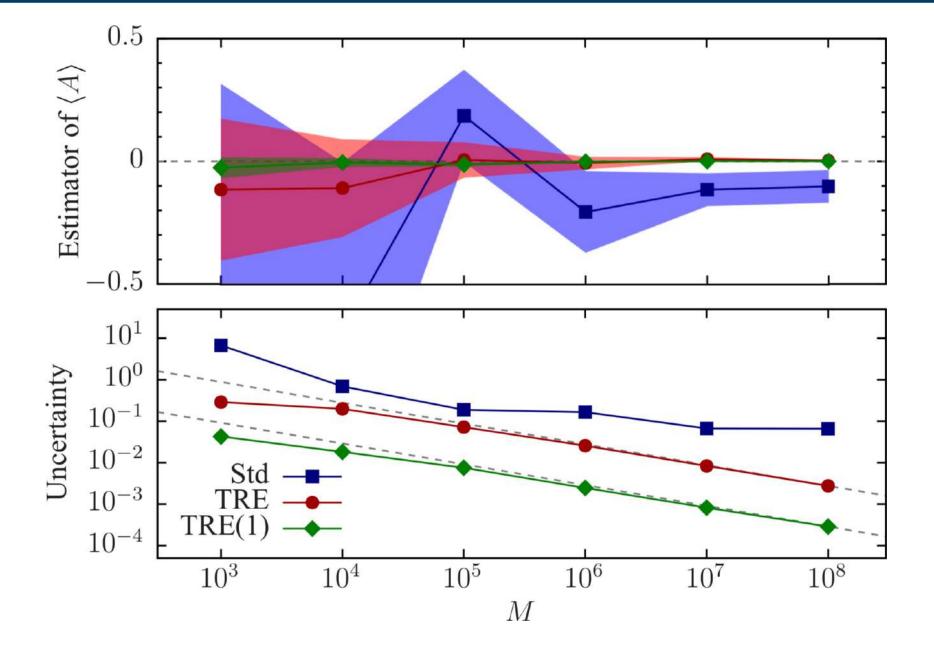
# Tail of $H_4(A)$



### Tail of [H<sub>3.1</sub>(A)+H<sub>4.1</sub>(A)]/2

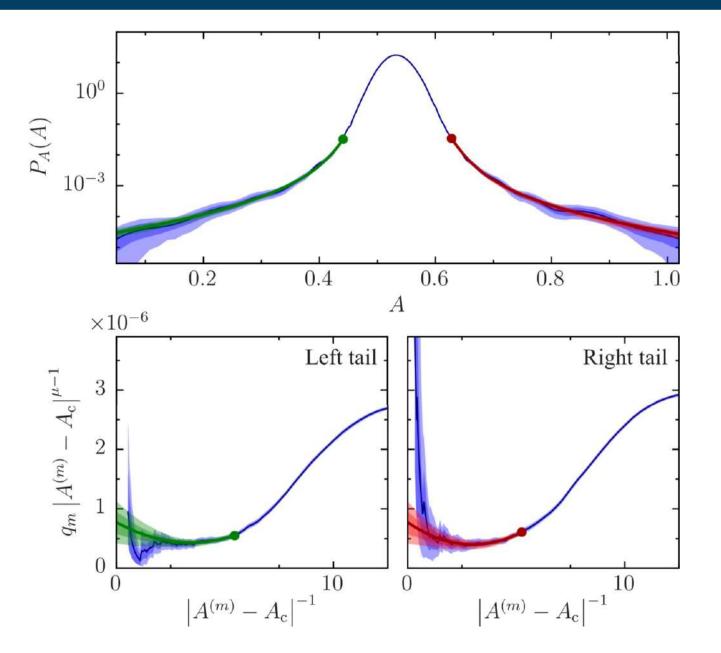


## Behavior of $[H_{2.1}(A) + H_{3.1}(A)]/2$

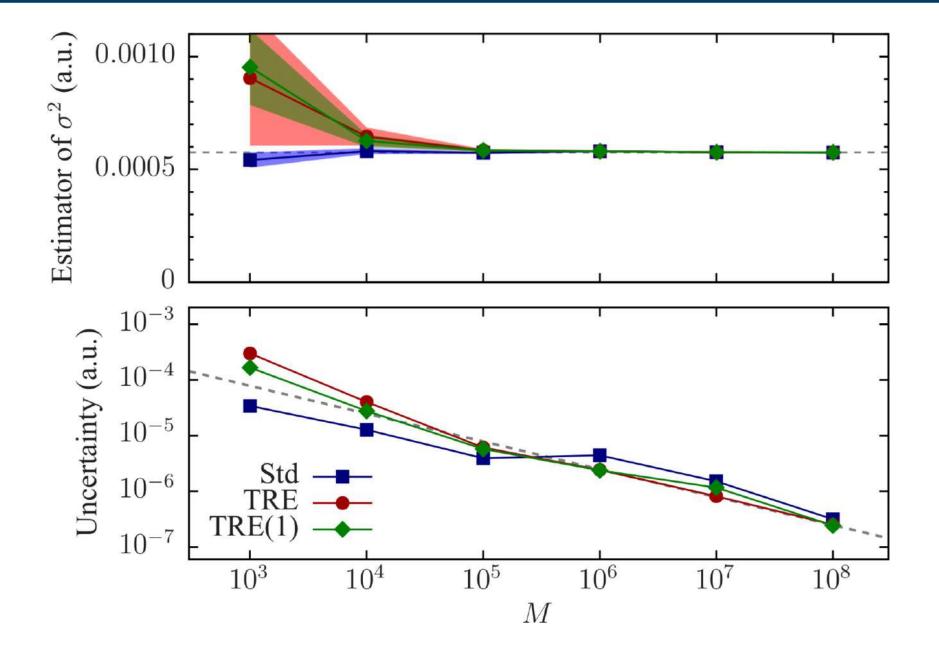


	Standard	TRE (one constraint)
М	$ ar{A} $	$\mathcal{A}$
10 <sup>3</sup>	$\sim 10^{30}$	-0.42(55)
$10^{4}$	$\sim \! 10^{28}$	0.01(18)
10 <sup>5</sup>	$\sim \! 10^{39}$	0.046(68)
$10^{6}$	${\sim}10^{48}$	-0.028(54)
$10^{7}$	${\sim}10^{59}$	-0.019(20)
$10^{8}$	$\sim \! 10^{79}$	-0.0062(76)
Exact	0.0	0.0

#### Energy of electron gas



### Energy of electron gas



#### Force in C<sub>2</sub> molecule

