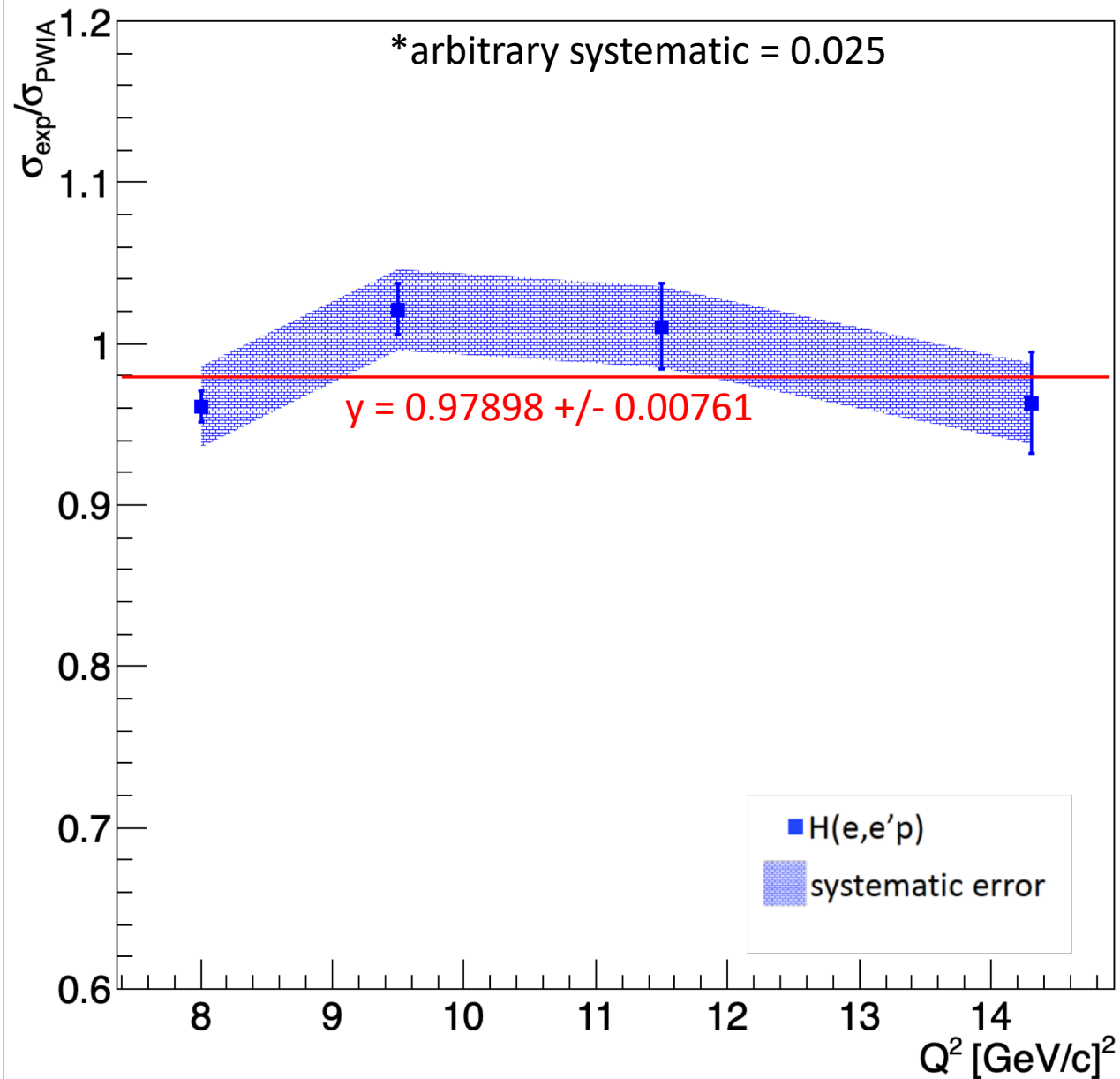


Hydrogen

*arbitrary systematic = 0.025

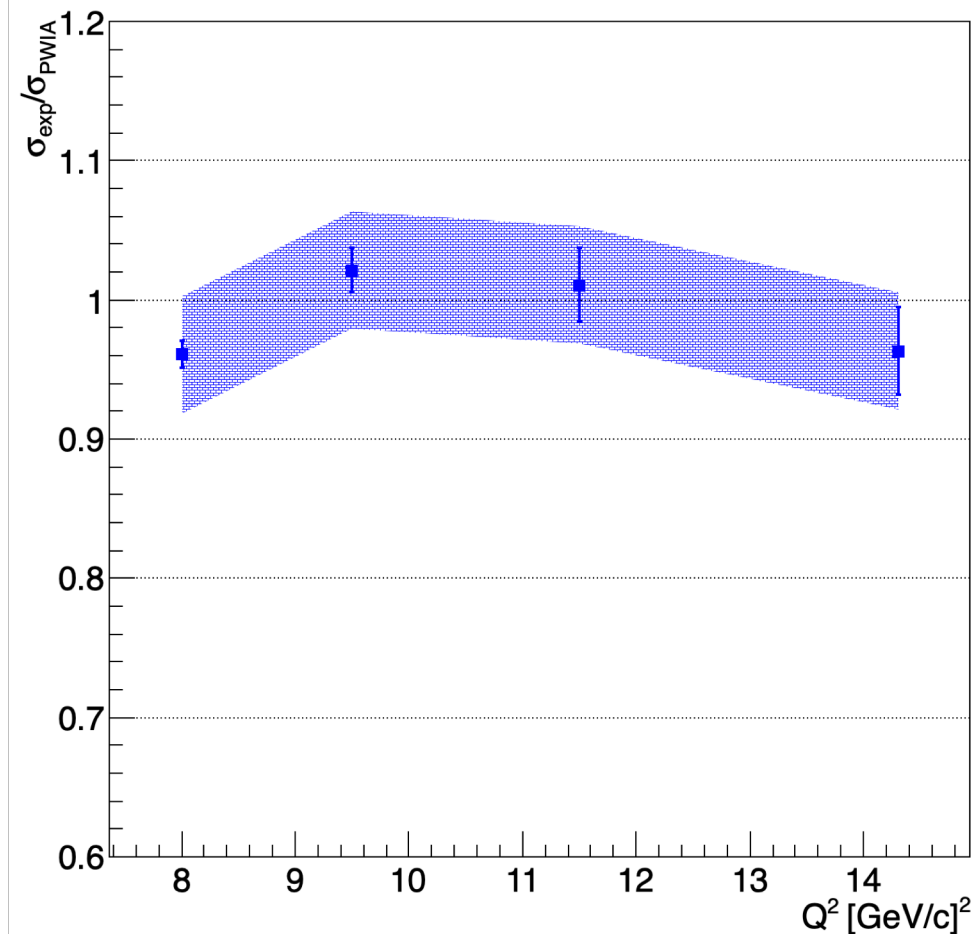
$$y = 0.97898 \pm 0.00761$$



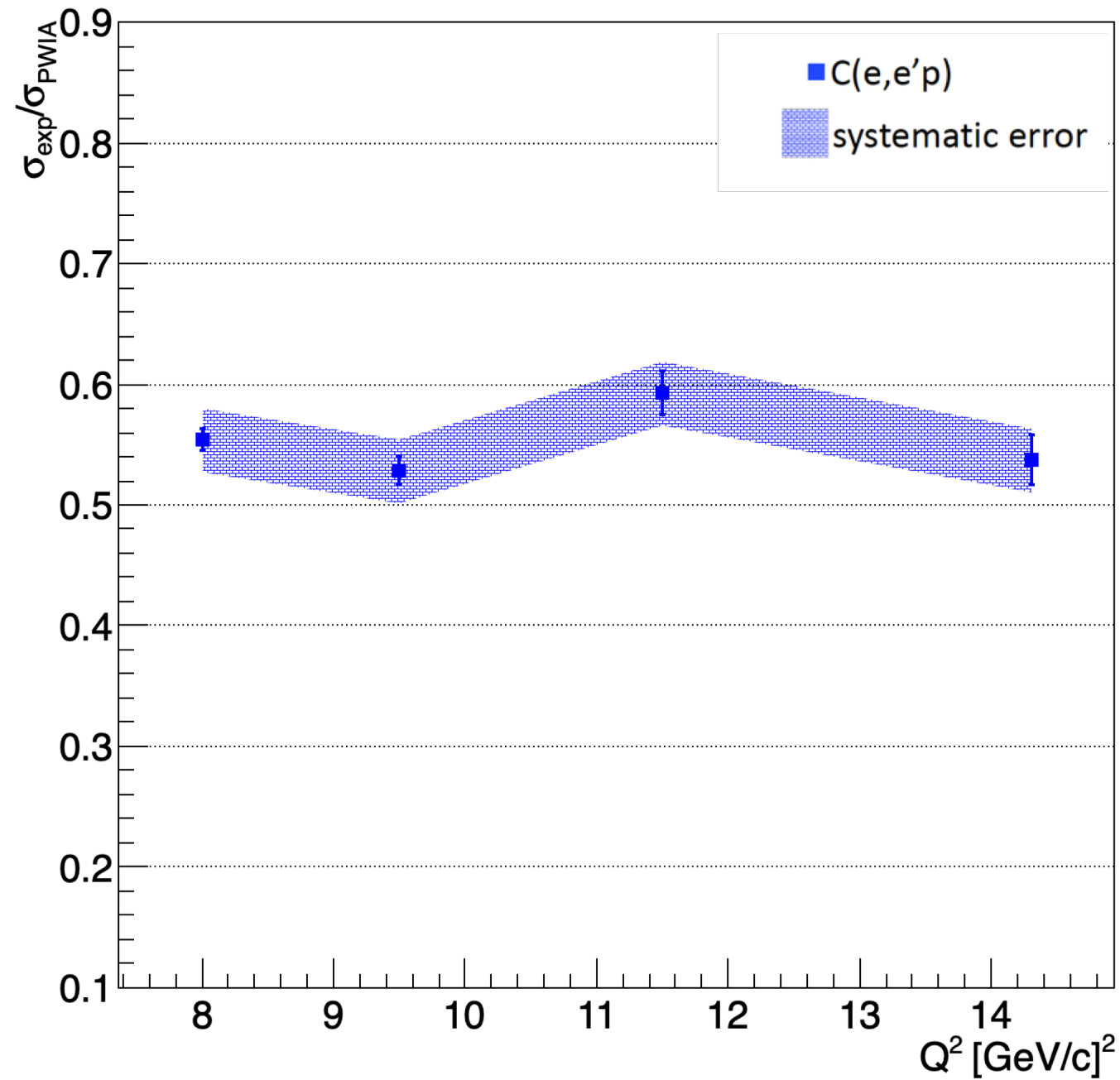
Point farthest from the line is at 9.5:
1.0212

Therefore systematic = 0.042

Hydrogen



Carbon



Systematic = 0.0263

Spreadsheet is here:

https://docs.google.com/spreadsheets/d/1fro8a4KaVXGPJt7qR7JXoSicQZM_kh8ilng_zZAS7bs/edit?usp=sharing

Summary table and questions:

Q2	Target	Collimator	efficiency	ratio	stat uncertainty	factor:	0.6272	systematic:	0.042
	8 h	small	ss	1.018603479	0.01022857181				0.0263424
	8 h	small	new	0.9037394167	0.00907513445				
	8 h	small	quick	0.9608793506	0.00964891996				
	8 1c	small	ss	0.3425725858	0.04249089975				
	8 1c	small	new	0.2814661959	0.0349115849				
	8 1c	small	quick	0.325168689	0.04033221204	0.2039458018	0.02529636339		
	8 6c	small	ss	0.9303495844	0.01475259339				
	8 6c	small	new	0.813096992	0.01289331398				
	8 6c	small	quick	0.8830845411	0.01400310956	0.5538706242	0.008782750317		
	9.5 h	small	ss	1.100668532	0.01699177742				
	9.5 h	small	new	0.9547382959	0.01473882846				
	9.5 h	small	quick	1.021157624	0.01576431283				
	9.5 h	large	ss	0.9901926225	0.01932290085				
	9.5 h	large	new	0.8756495676	0.01708767505				
	9.5 h	large	quick	0.9482013509	0.01850347122				
	9.5 1c	large	ss	0.9758161386	0.02236322969				
	9.5 1c	large	new	0.8609582396	0.01971035239				
	9.5 1c	large	quick	0.9074347948	0.02079610281	0.5691431033	0.01304331568		
	9.5 6c	large	ss	0.9055716148	0.02058649051				
	9.5 6c	large	new	0.7873856981	0.01789975297				
	9.5 6c	large	quick	0.84211273	0.0191438705	0.5281731043	0.01200703558		
	11.5 h	large	ss	1.105902476	0.02924481052				
	11.5 h	large	new	0.950900323	0.02514588796				
	11.5 h	large	quick	1.010510734	0.02672224322				
	11.5 6c	large	ss	0.9952930882	0.03048403038				

Why so low?

Why so different?

Why so different?

9.5	6c	large	new	0.7873856981	0.01789975297					
9.5	6c	large	quick	0.84211273	0.0191438705	0.5281731043	0.01200703558			
11.5	h	large	ss	1.105902476	0.02924481052					
11.5	h	large	new	0.950900323	0.02514588796					
11.5	h	large	quick	1.010510734	0.02672224322					
11.5	6c	large	ss	0.9952930882	0.03048403038					
11.5	6c	large	new	0.8890491028	0.02722996892					
11.5	6c	large	quick	0.9449316348	0.02894154999	0.5926611214	0.01815214015			
14.3	h	small	ss							
14.3	h	small	new							
14.3	h	small	quick							
14.3	h	large	ss	0.9936551801	0.03223843109					
14.3	h	large	new	0.884963045	0.02871199256					
14.3	h	large	quick	0.9632233612	0.0312510925					
14.3	6c	small	ss	0.8630471118	0.04196278654					
14.3	6c	small	new	0.8423858251	0.04095820041		nxf			
14.3	6c	small	quick	0.8192883466	0.03983516257	0.513857651	217.3617864	0.5371948629	0.02095796768	
14.3	6c	large	ss	0.97309714	0.06361335007					
14.3	6c	large	new	0.9651842416	0.06309606772					
14.3	6c	large	quick	0.9237585482	0.06038798542	0.5793813614	135.5752386			

Why so low?