

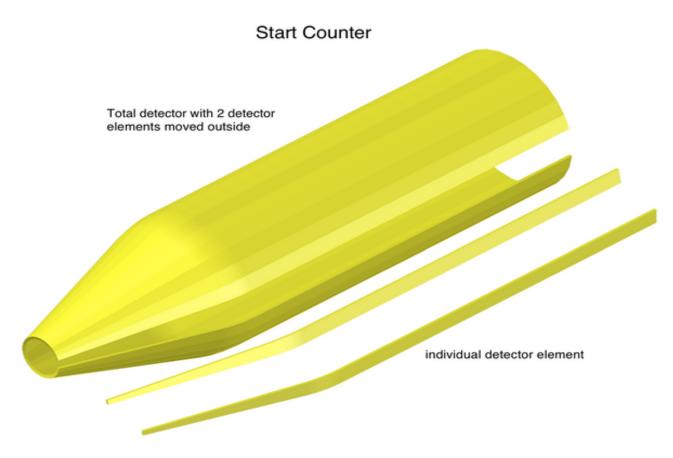
Start Counter



Eric Pooser

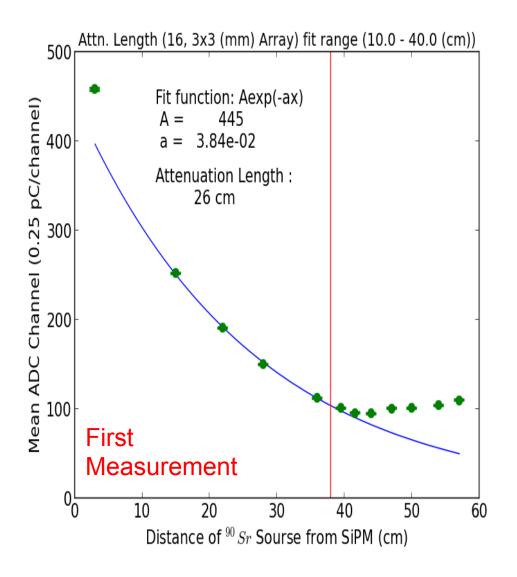
- W. U. Boeglin
- P. Khetarpal
 - L. Guo

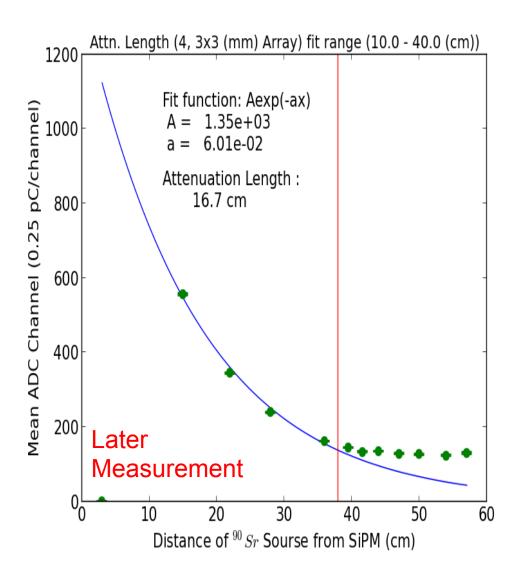
- What is GlueX?
- What are scintillators?
- How do they work?
- How we measure them?
- Our measurements
- Apparent defects
- Proper handling





Attenuation Length (1st Batch)

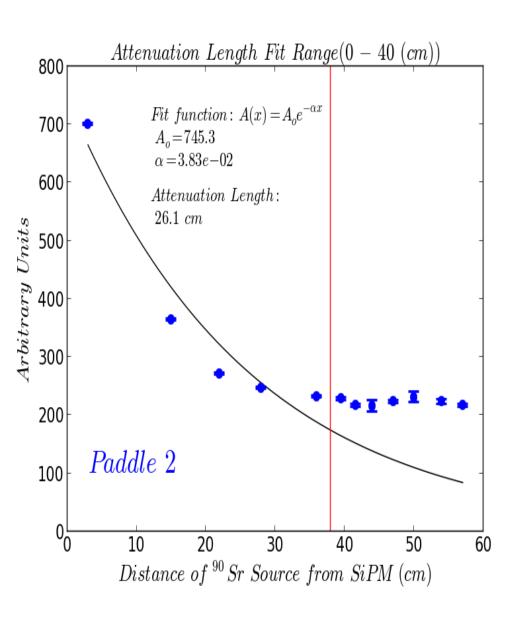


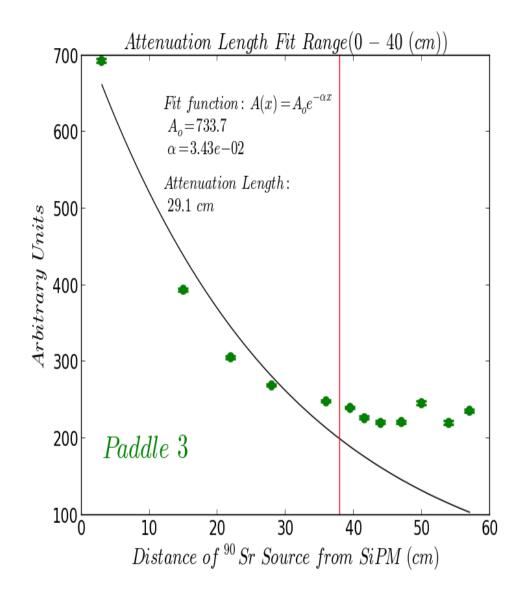


- Five months have elapsed between these two measurements
- ~35% change in attenuation length measurements



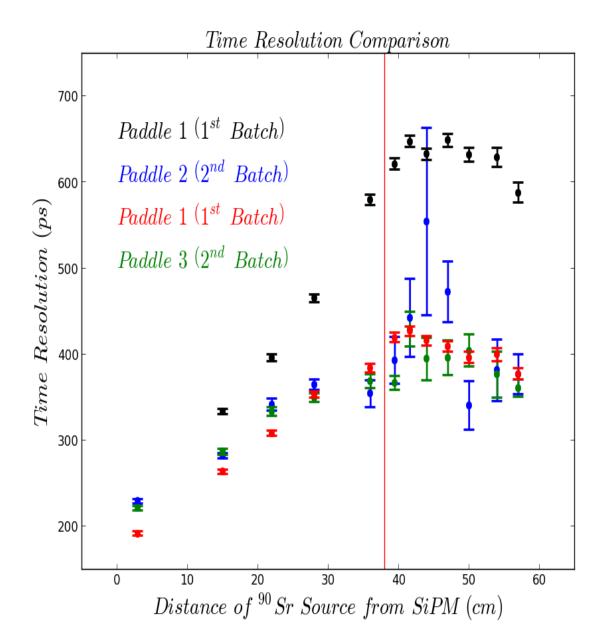
Attenuation Length (McNeal)







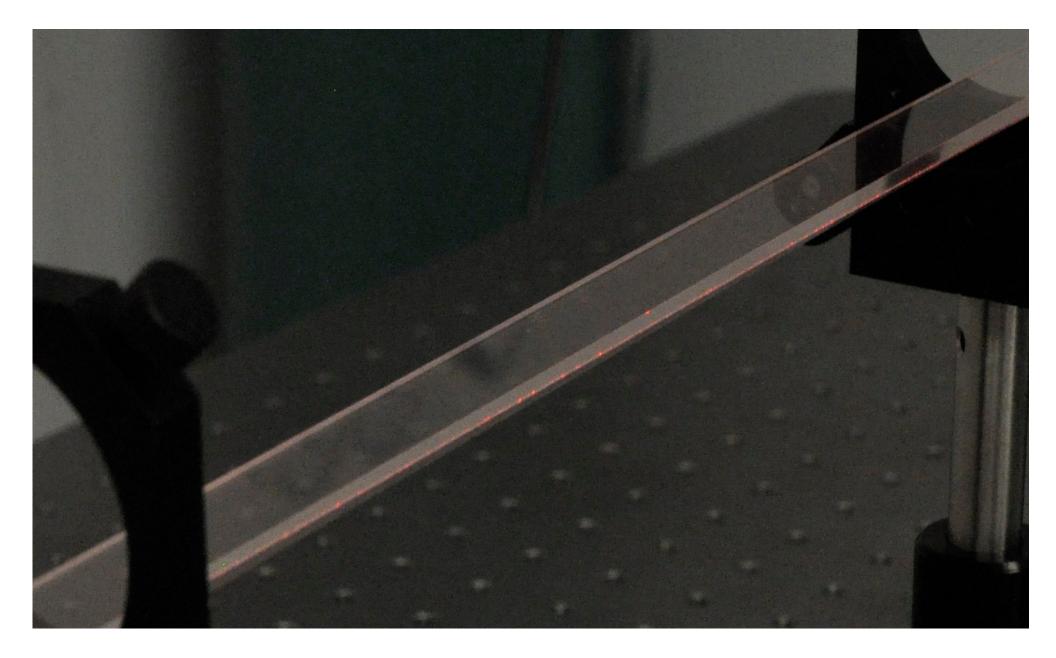
Time Resolution Studies



- Deteriorated paddleUnacceptable
- Tape removed upon arrival and measured 1 month later
 - Unacceptable
- Suitable if this quality did not deteriorate over time
- Tape removed one month after arrival and measured immediately
 - Shows good surface quality except for the bent region and adhesive stuck to surface



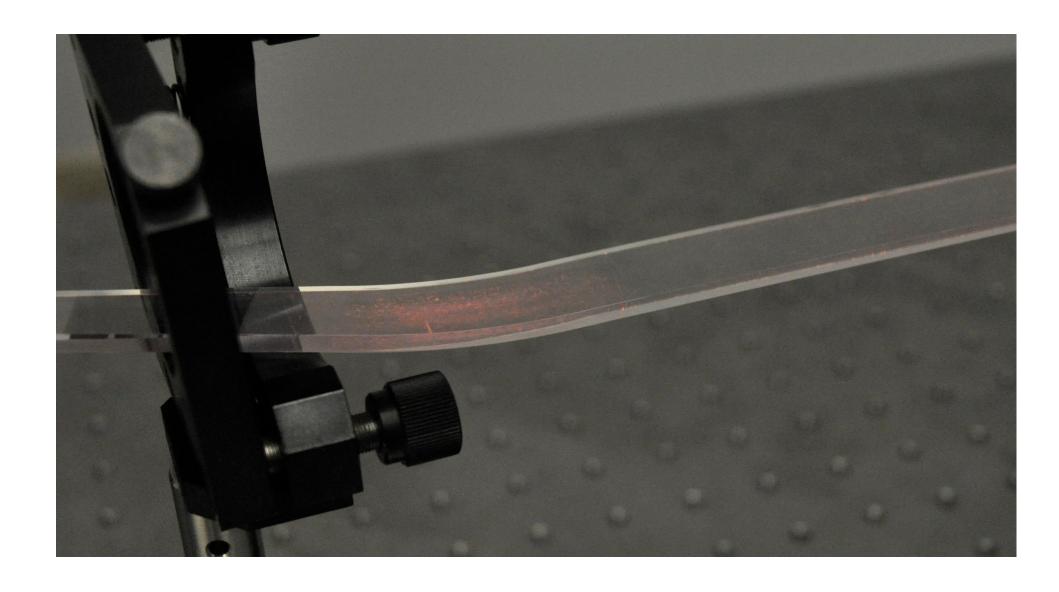
EJ204 Straight Bar



Start Counter Meeting, Nov 29 2012

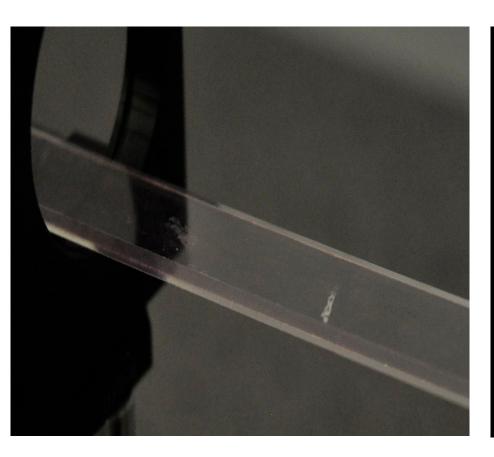


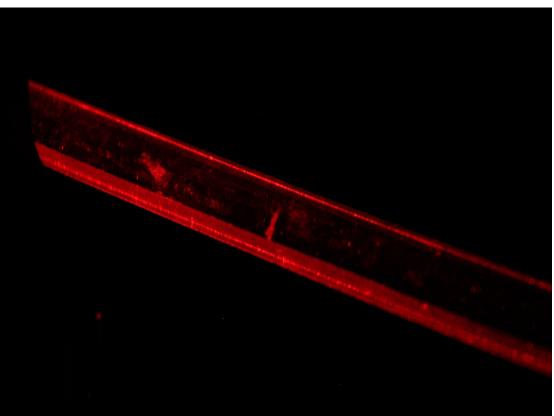
Paddle 2 (Bend region)





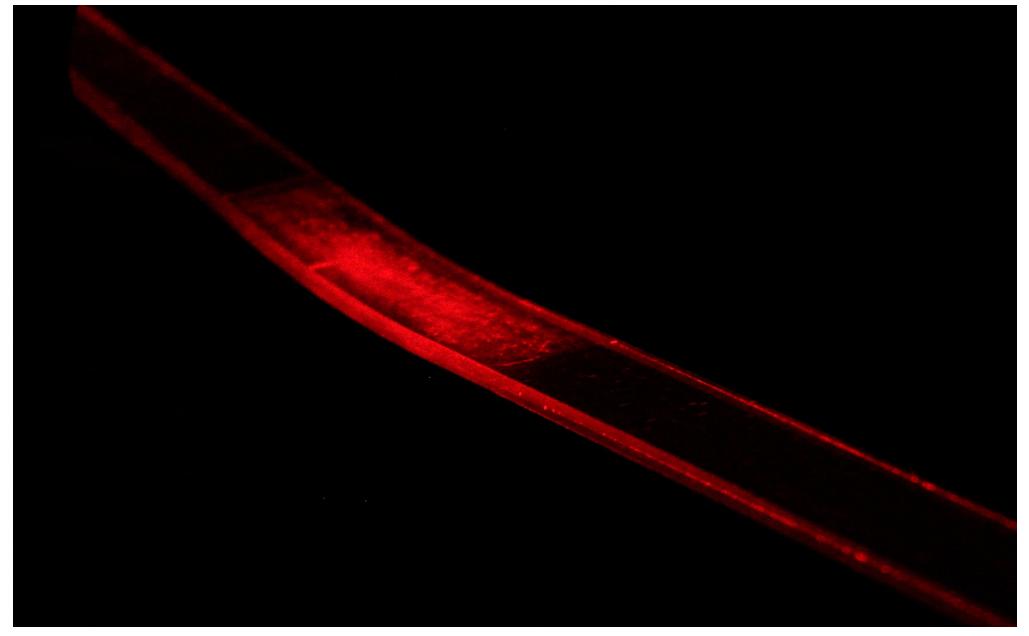
Paddle 3 (tape recently removed)





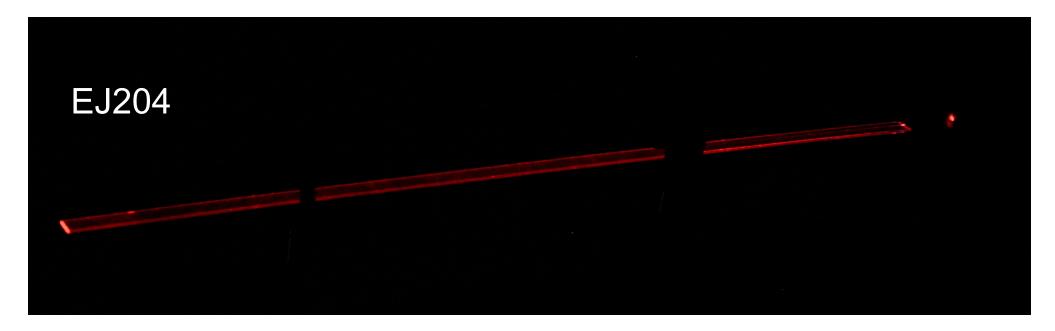


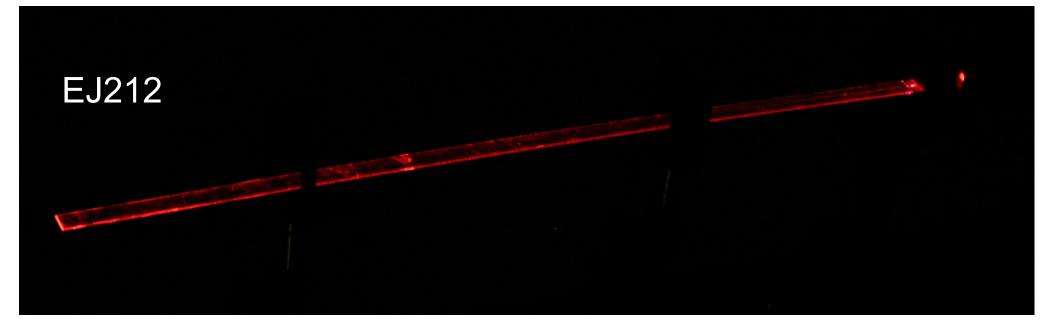
Paddle 3 (bend region)





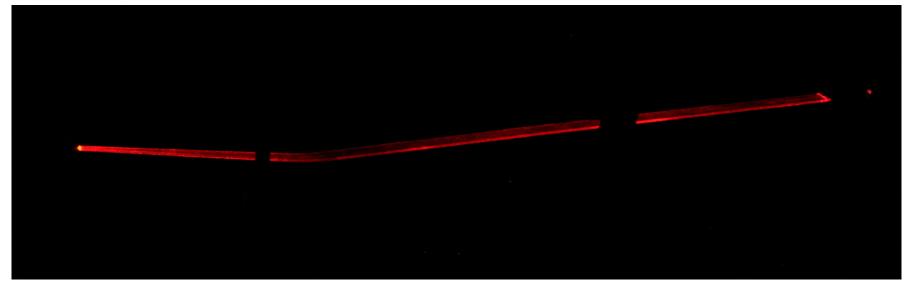
EJ204 (FIU) and EJ212 (McNeal)

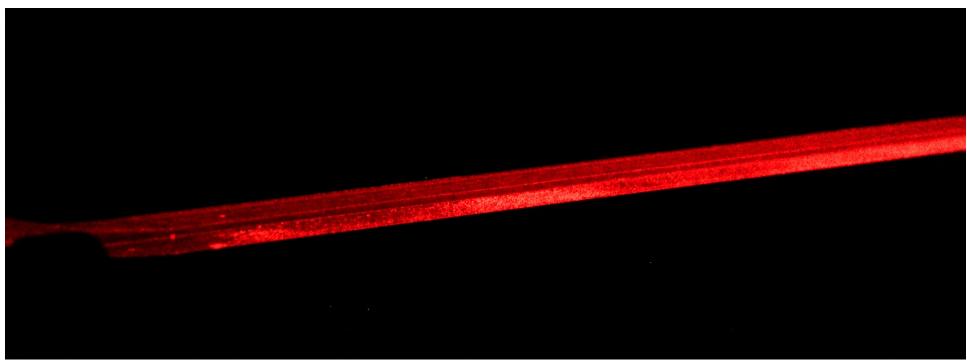






Paddle 1 (Deteriorated Paddle)

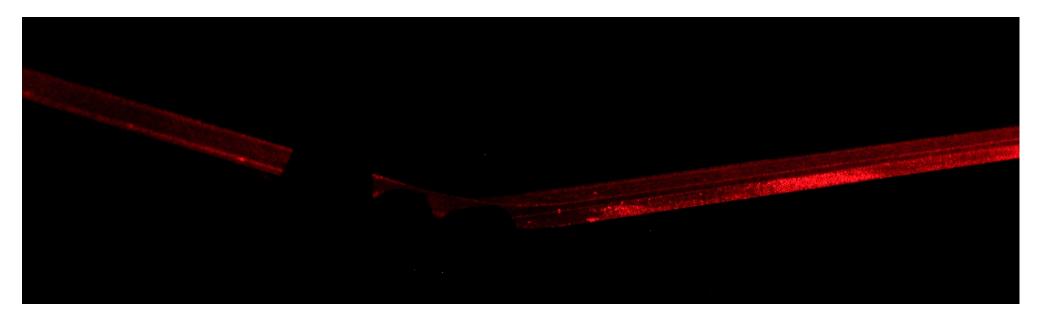


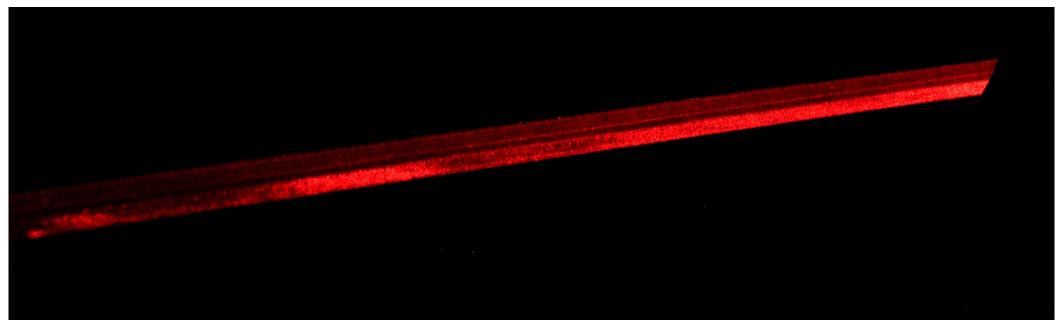


Start Counter Meeting, Nov 29 2012



Paddle 1 (Crazing)





Start Counter Meeting, Nov 29 2012





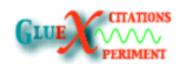
Thank you for your time!

Questions?





Back-up Slides



Time Resolution Studies

- Batch # 1:
 - 2 paddles received, 1 is ruined
 - O Measurements:
 - Paddle 1: upon arrival
 - Paddle 1: after 5 months
- Batch # 2:
 - 3 paddles received, 1 is broken
 - O Measurements:
 - Paddle 2: Tape removed upon arrival but measurements performed one month later
 - Paddle 3: Tape removed one month later but measured immediately