

About Me

Aaron Spector

31 years old

- Born in Philadelphia, Pennsylvania, grew up in Florida

B.S. from University of Florida in May 2009

- Background in laser optics and long baseline interferometry
- Worked on Laser Interferometer Space Antenna (LISA)

Graduated (PhD) from University of Florida in February 2015

- Designed secondary mirrors for the inter-spacecraft telescope for LISA
- Create a very dark spot at the center of a Gaussian beam

First Postdoc at UHH from April 2015 - June 2017

- Stabilization techniques for long baseline cavities for ALPSII

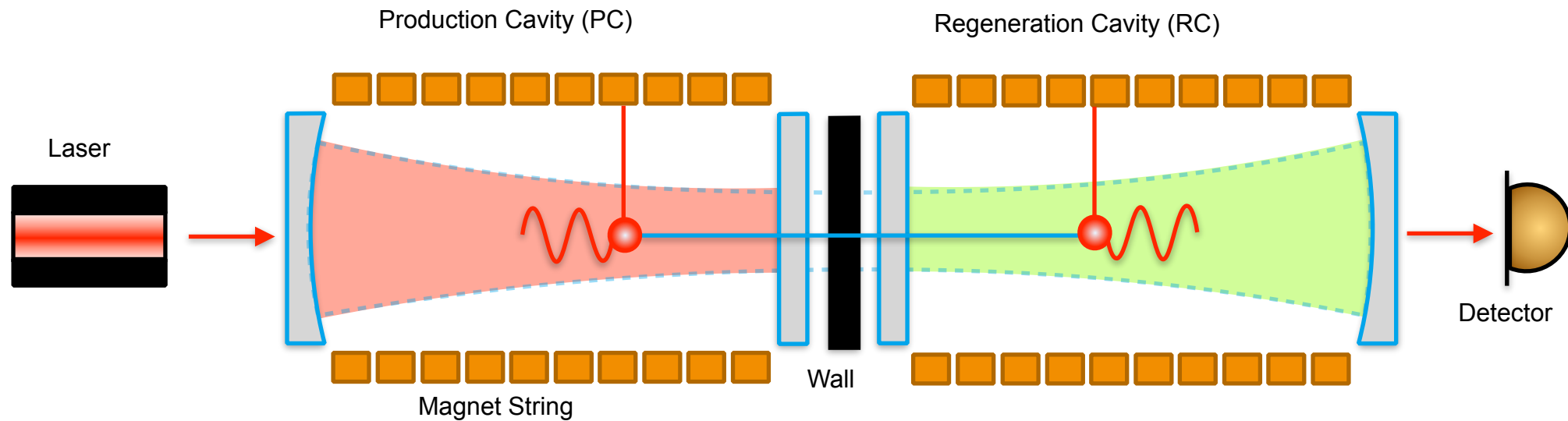
Began DESY fellowship in July 2017

My Current Work

Stabilization Techniques for Long Baseline Cavities

ALPSII is all about maintaining the frequency of a laser with respect to the length of a cavity

- Production cavity (PC) creates a beam of Axion-like particles
- Regeneration cavity (RC) converts the Axion-like particles back to photons which can be measured



- Must maintain the length of the RC with respect to the frequency of the light circulating in the PC

My Favourite Plot

Measurement of the Length Stabilization System for the ALPSIIa RC

