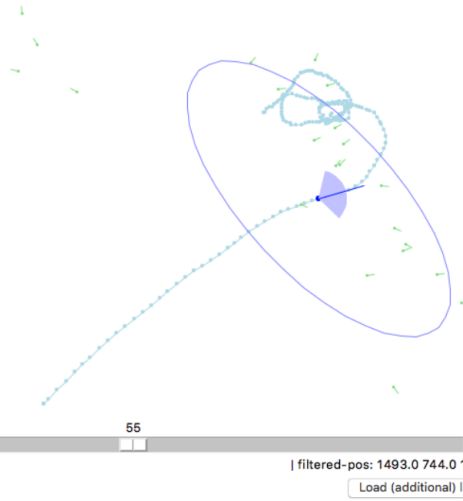
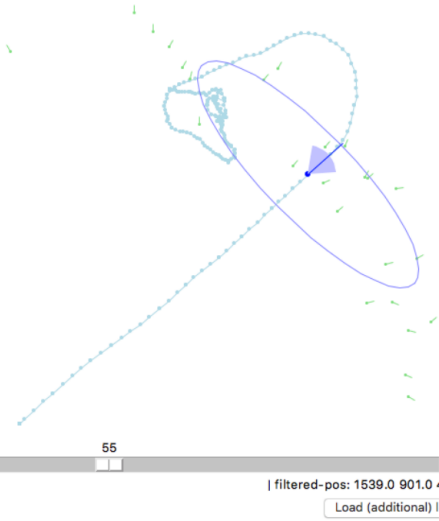


Prediction step only (4 different tests)



Different trajectories due to the error in the robot's motion

$$\sigma_{l_t}^2 = (p_1 l_t)^2 + (p_2 (l_t - r_t))^2$$

$$\sigma_{r_t}^2 = (p_1 r_t)^2 + (p_2 (l_t - r_t))^2$$

$$\text{left_command} \sim \mathcal{N}(l_t, \sigma_{l_t}^2)$$

$$\text{right_command} \sim \mathcal{N}(r_t, \sigma_{r_t}^2)$$

