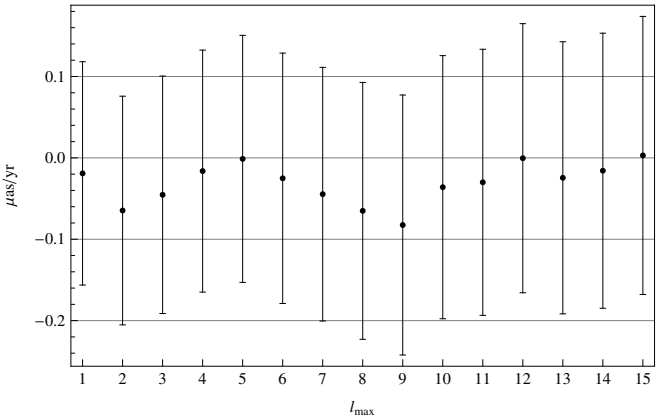
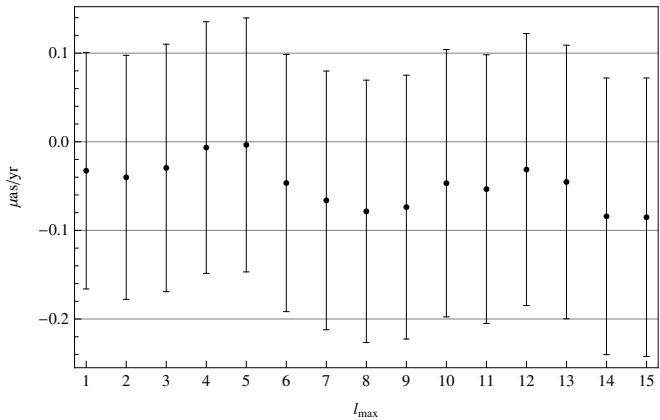


(a) Rotation



(b) Acceleration (divided by the light velocity)