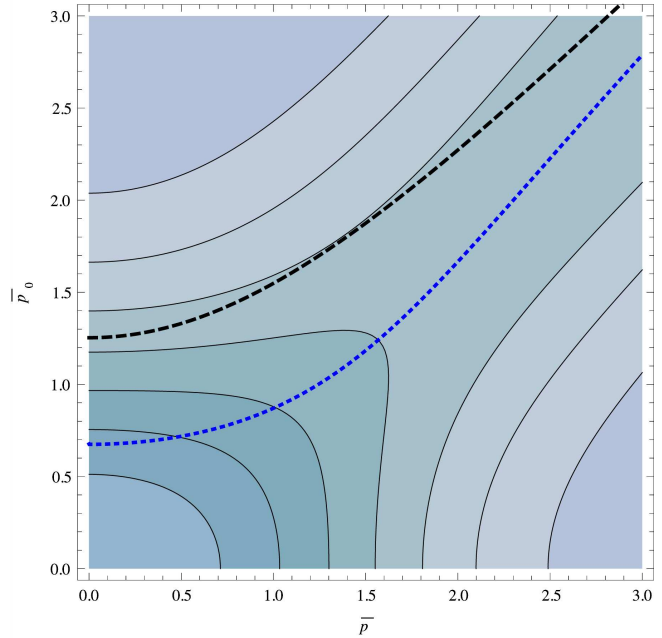
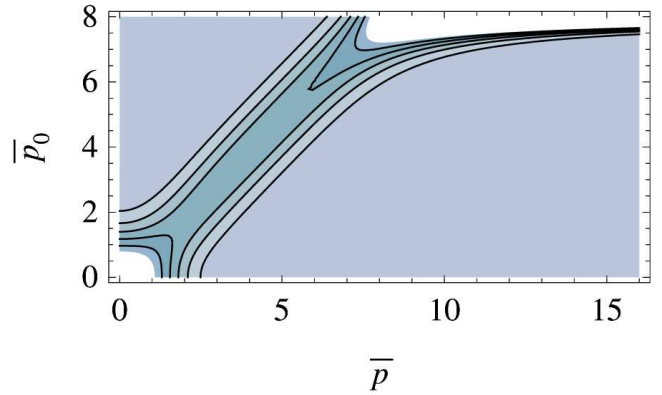


(a) This plot uses $I_0/\Sigma = 100$. The blue dotted line is the median estimator. The black dashed line is the mean estimator.



(b) This plot uses $I_0/\Sigma = 8$ (a very small value) showing the behavior for $\overline{p} > I_0/\Sigma$. It is clearly seen that for large $\overline{p}$, there is a large probability that the value of $\overline{p}_0$ is near the maximum (8 in this case). Fig. 7a would exhibit similar behavior in its large polarization regime near and past $\overline{p} = 100$.