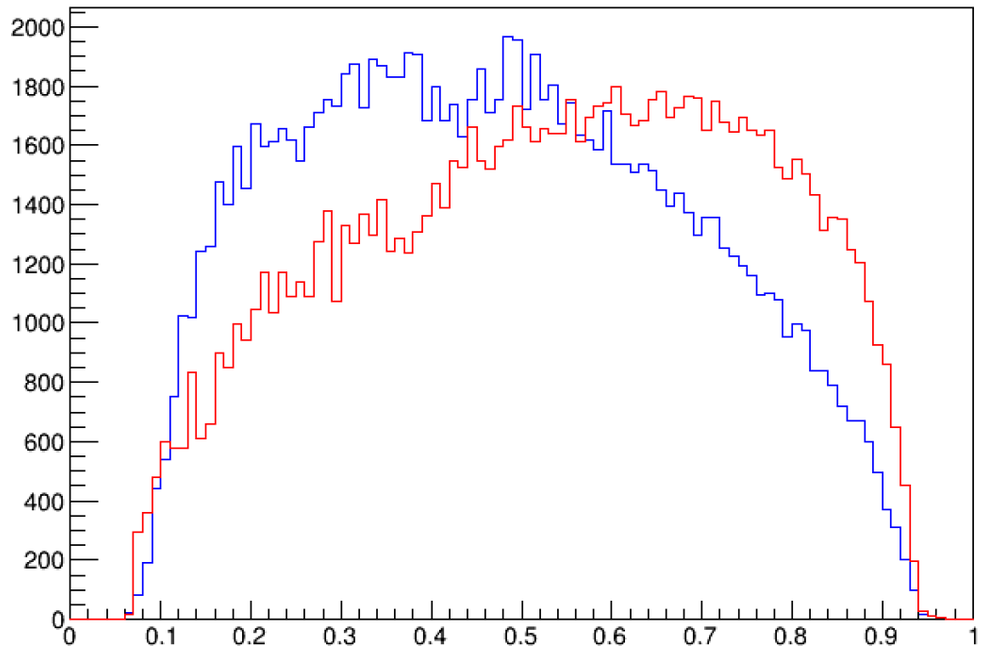
MC simulated distributions

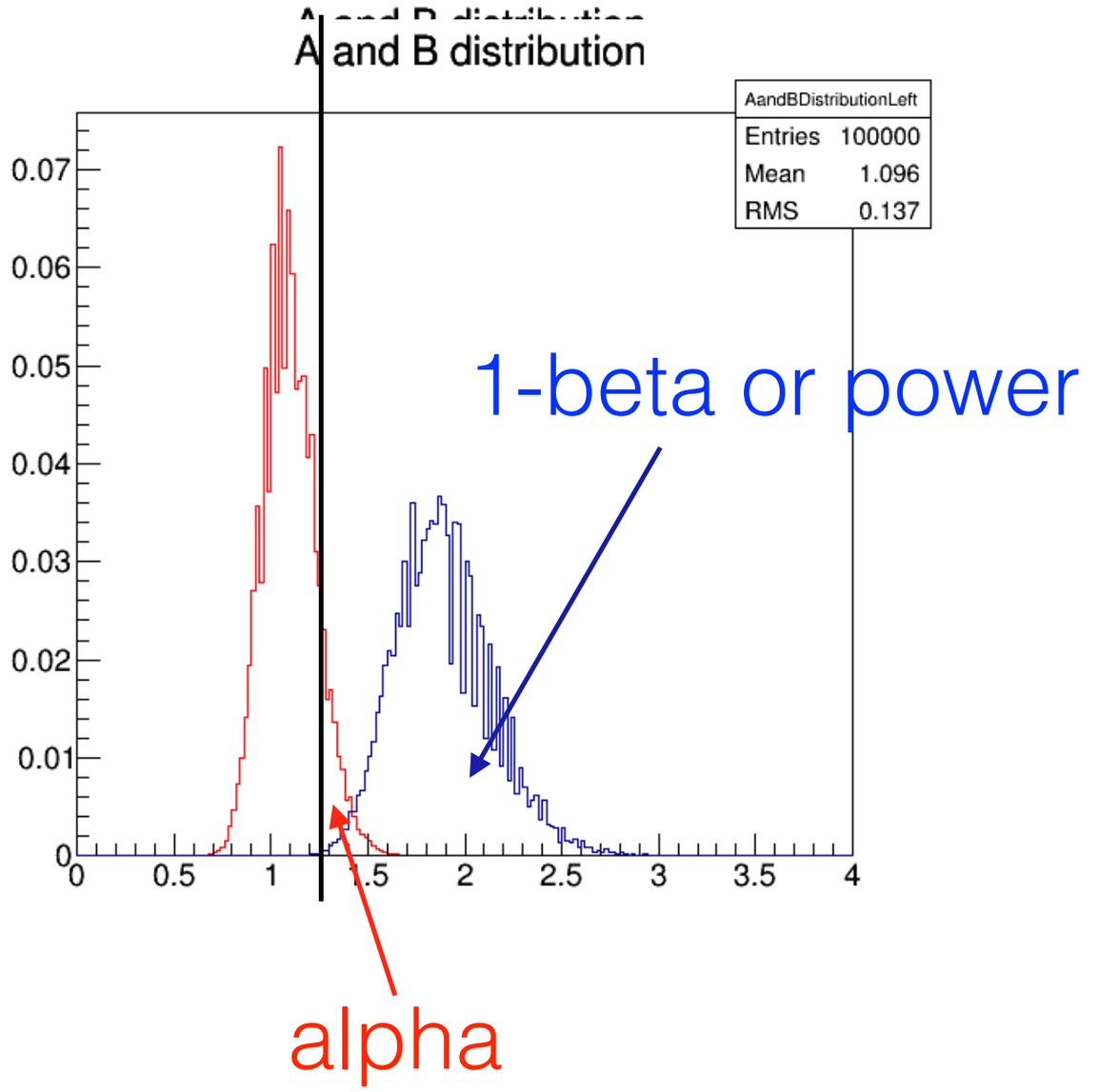
- Blue: left chiral model
- Red: right chiral model



Ryan Mueller

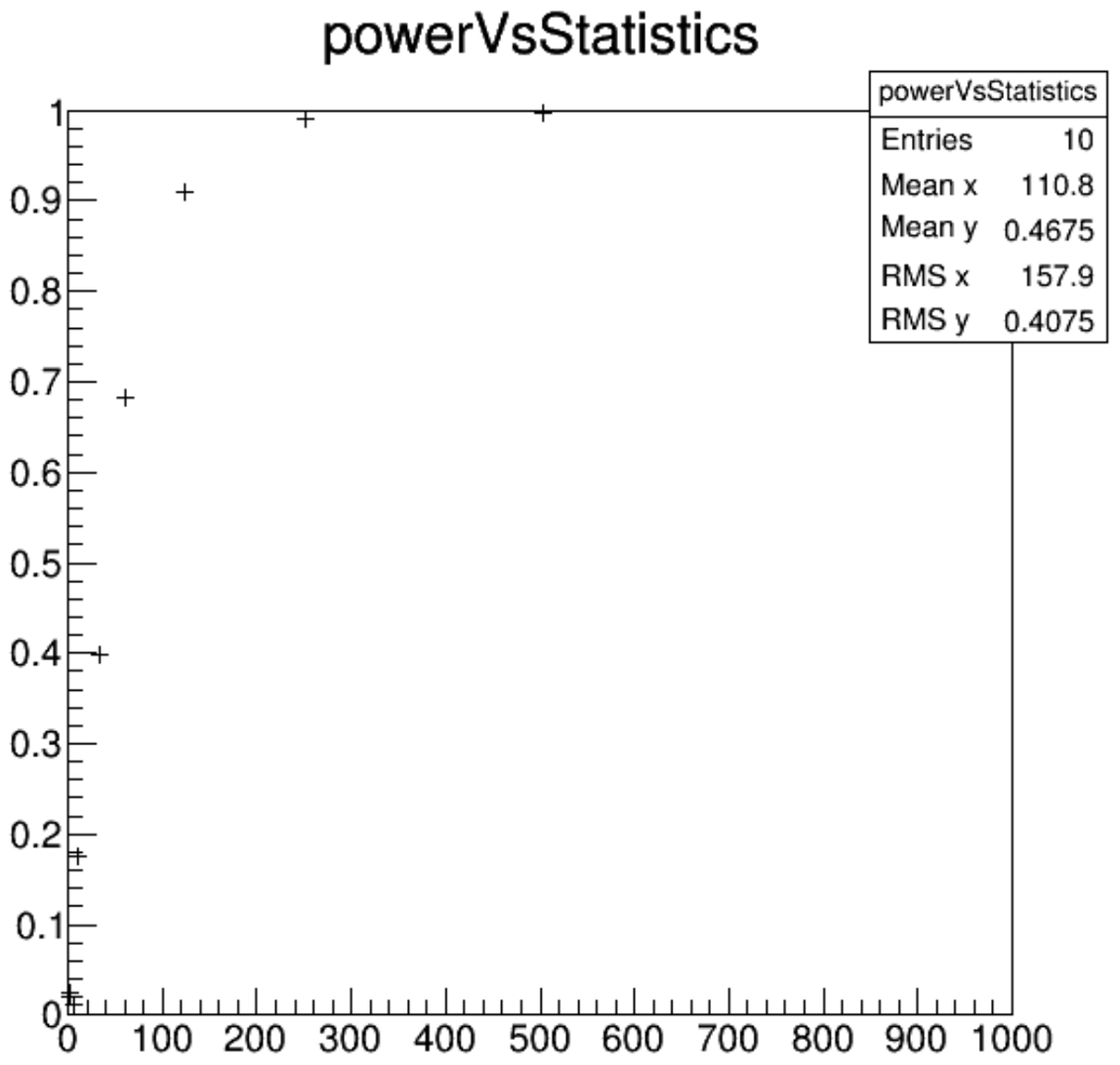
What I did

- Simulations: 100,000
- events per simulation: 250
- Change events per simulation and find a line based on alpha < 0.05
- Find 1-beta or power based on that and plot it



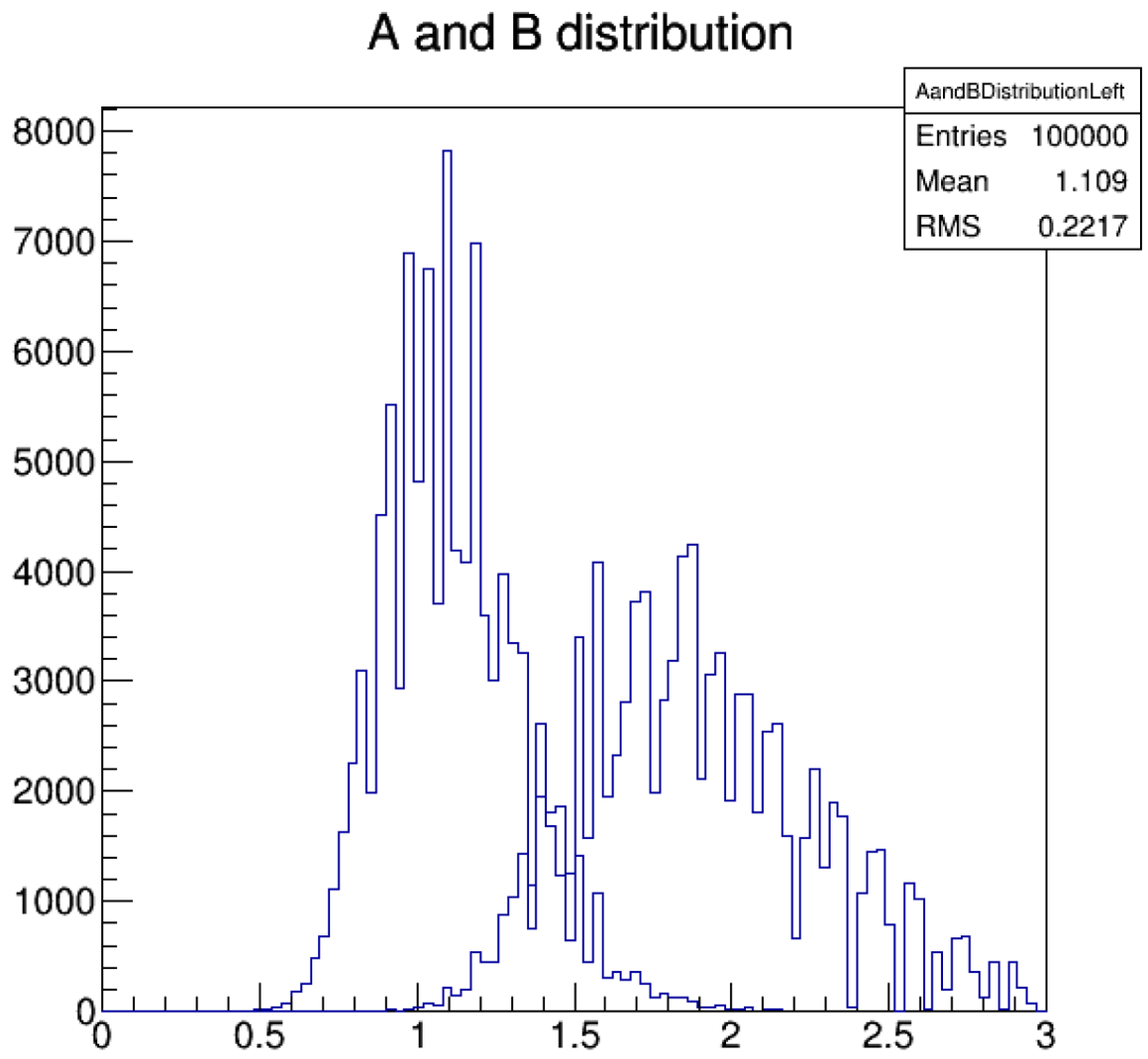
power vs statistics

- Results to the left
- Based on toy model,we would need n ~47 to get better than 50% power
- What actual models should I use, and what criteria should we use as acceptable?



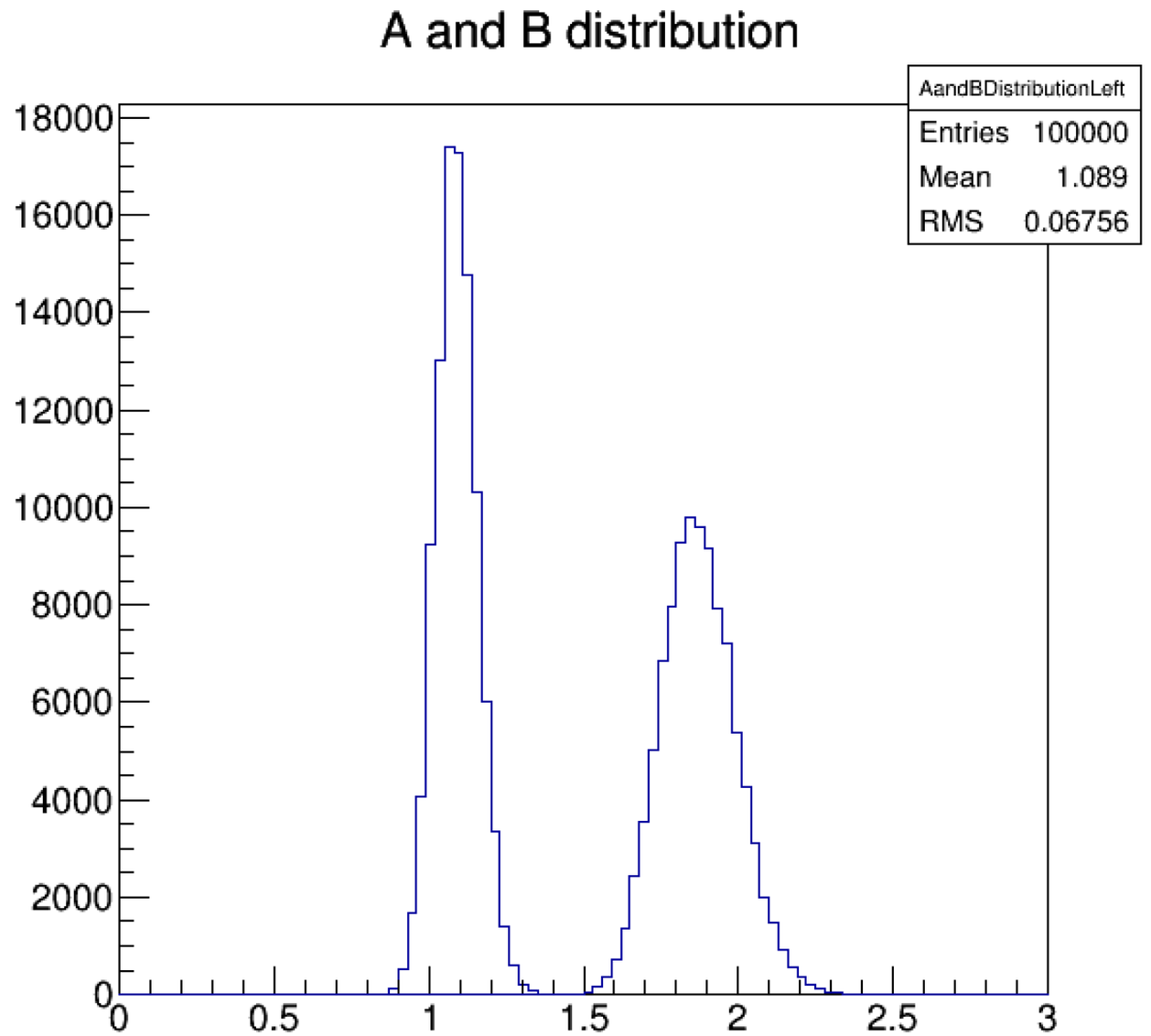
MC simulated distributions

- Simulations: 100,000
- events per simulation: 100



MC simulated distributions

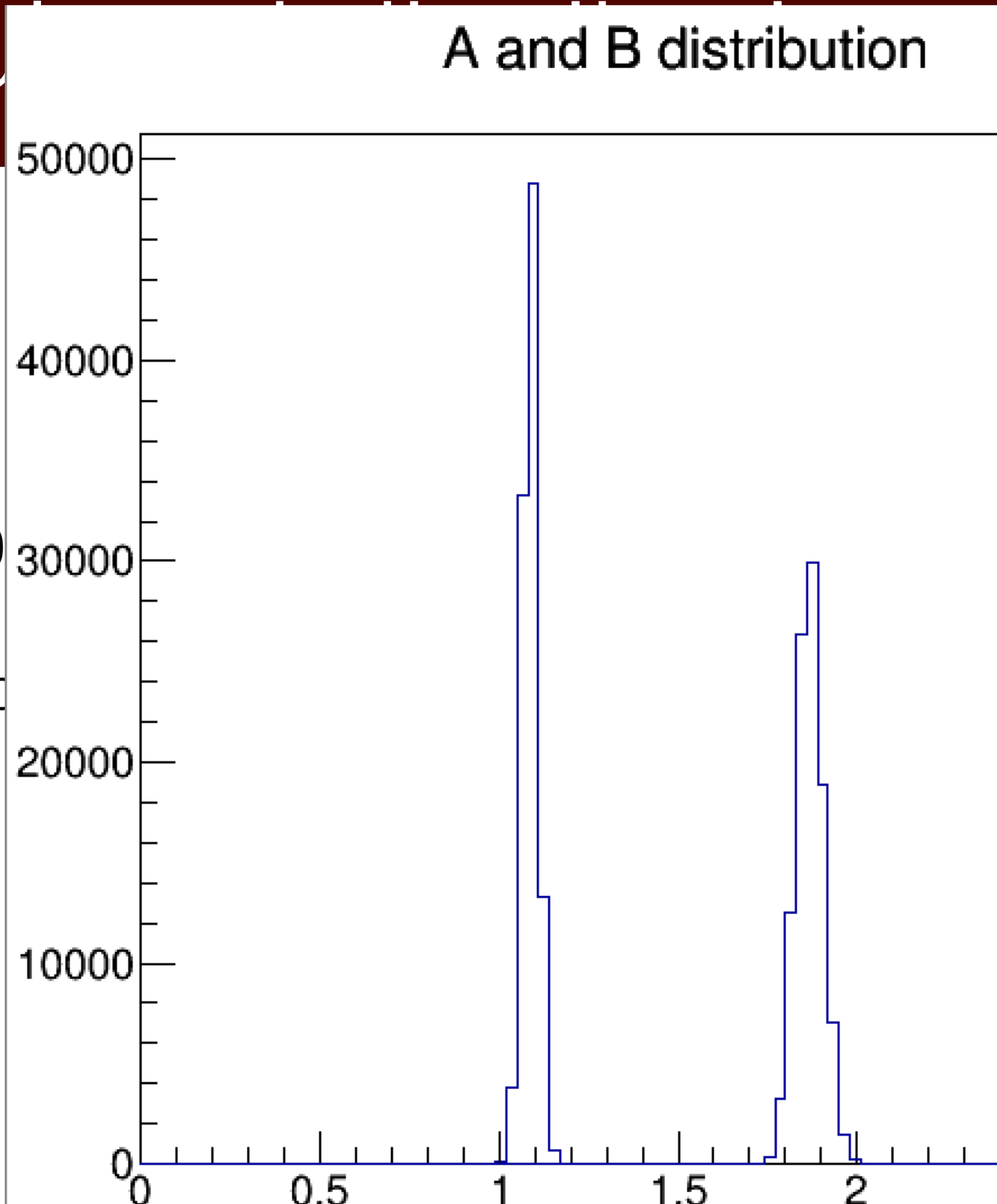
- Simulations: 100,000
- events per simulation: 1,000



MC simu

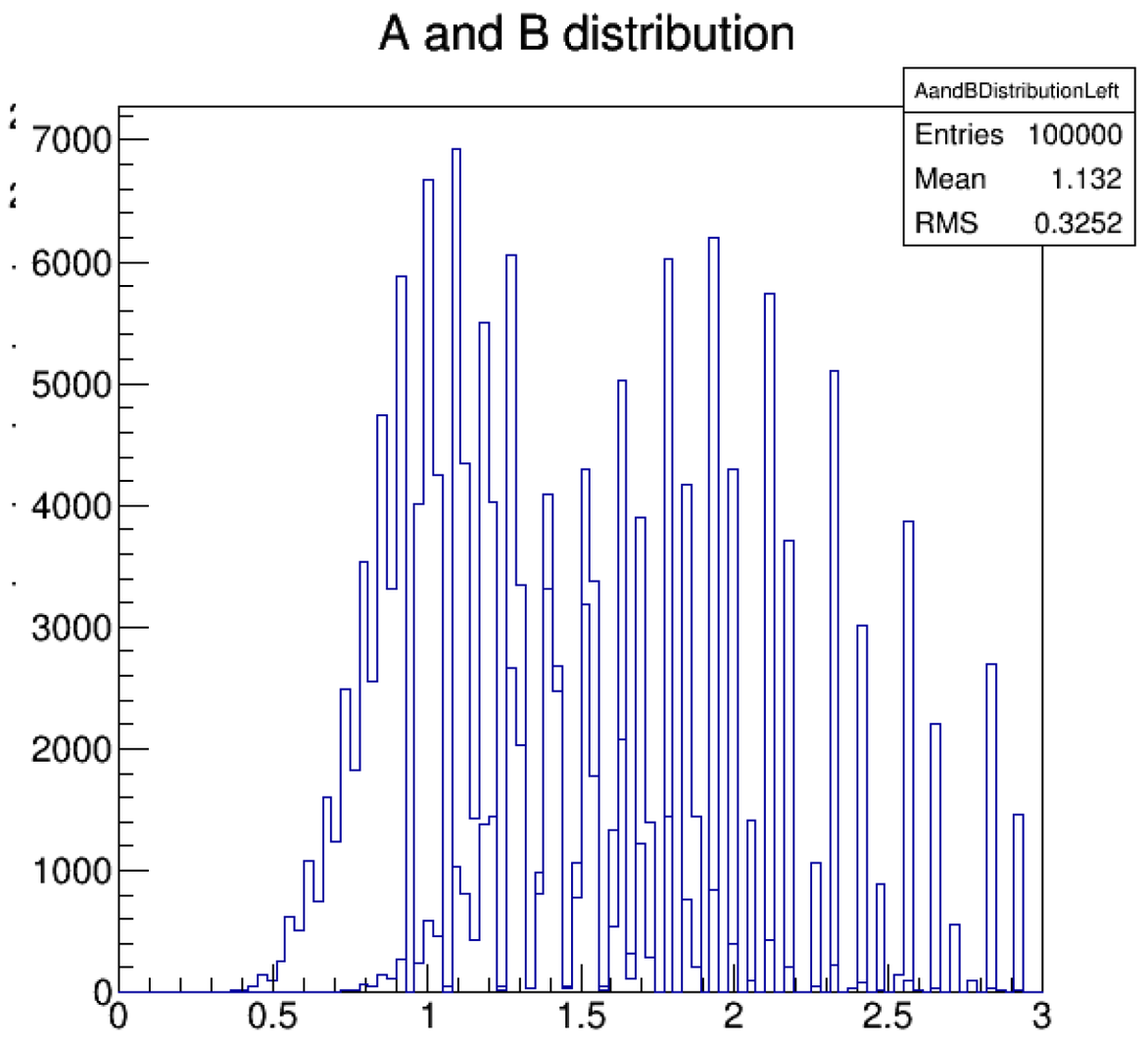
- Simulations: 100,00

- events per simulatic
  10,000



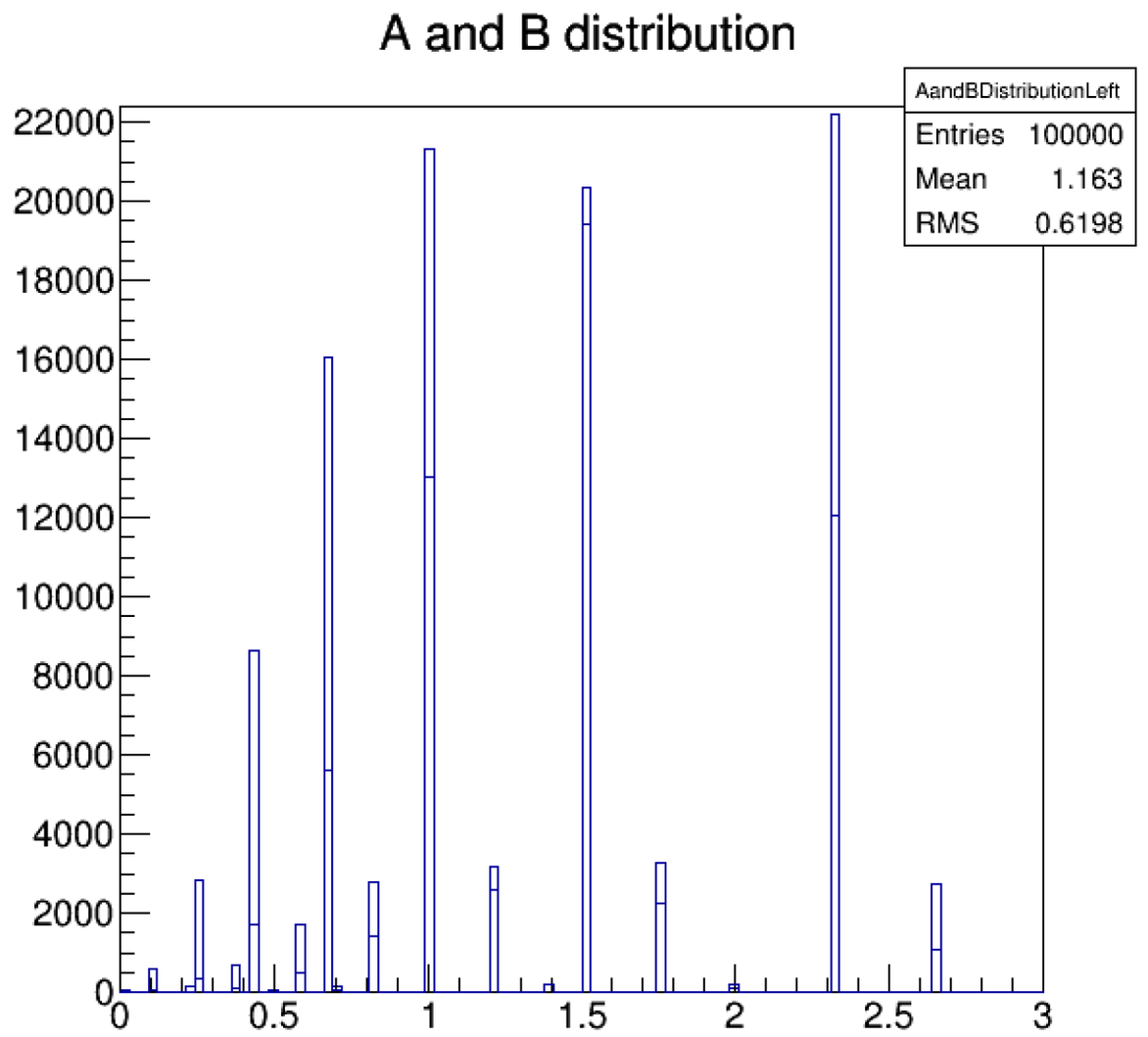
MC simulated distributions

- Simulations: 100,000
- events per simulation: 50



MC simulated distributions

- Simulations: 100,000
- events per simulation: 10



MC simulated distributions

- Simulations: 100,000
- events per simulation: 10