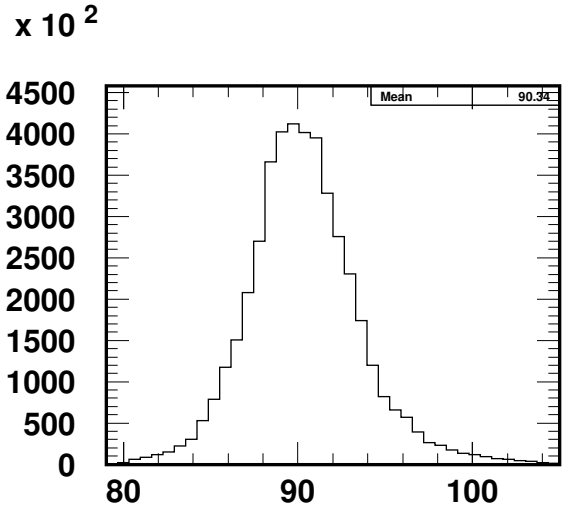
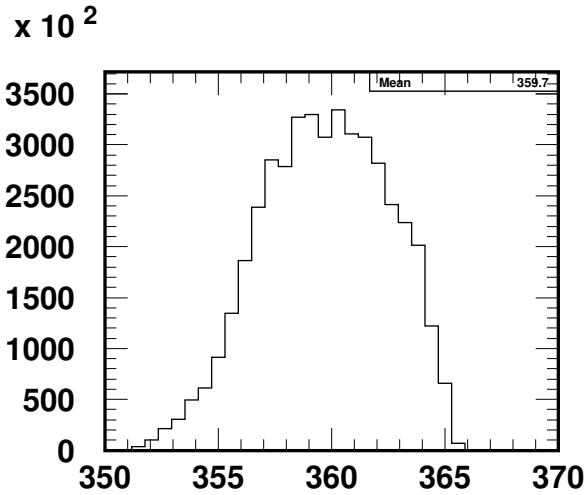
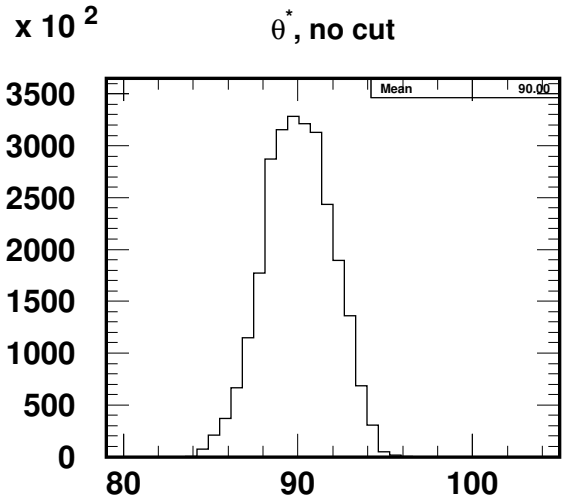


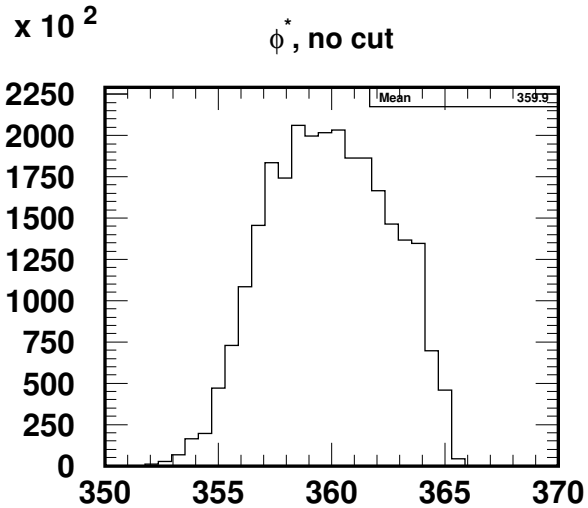
θ^*, no cut



ϕ^*, no cut



θ^*, with cut



ϕ^*, with cut