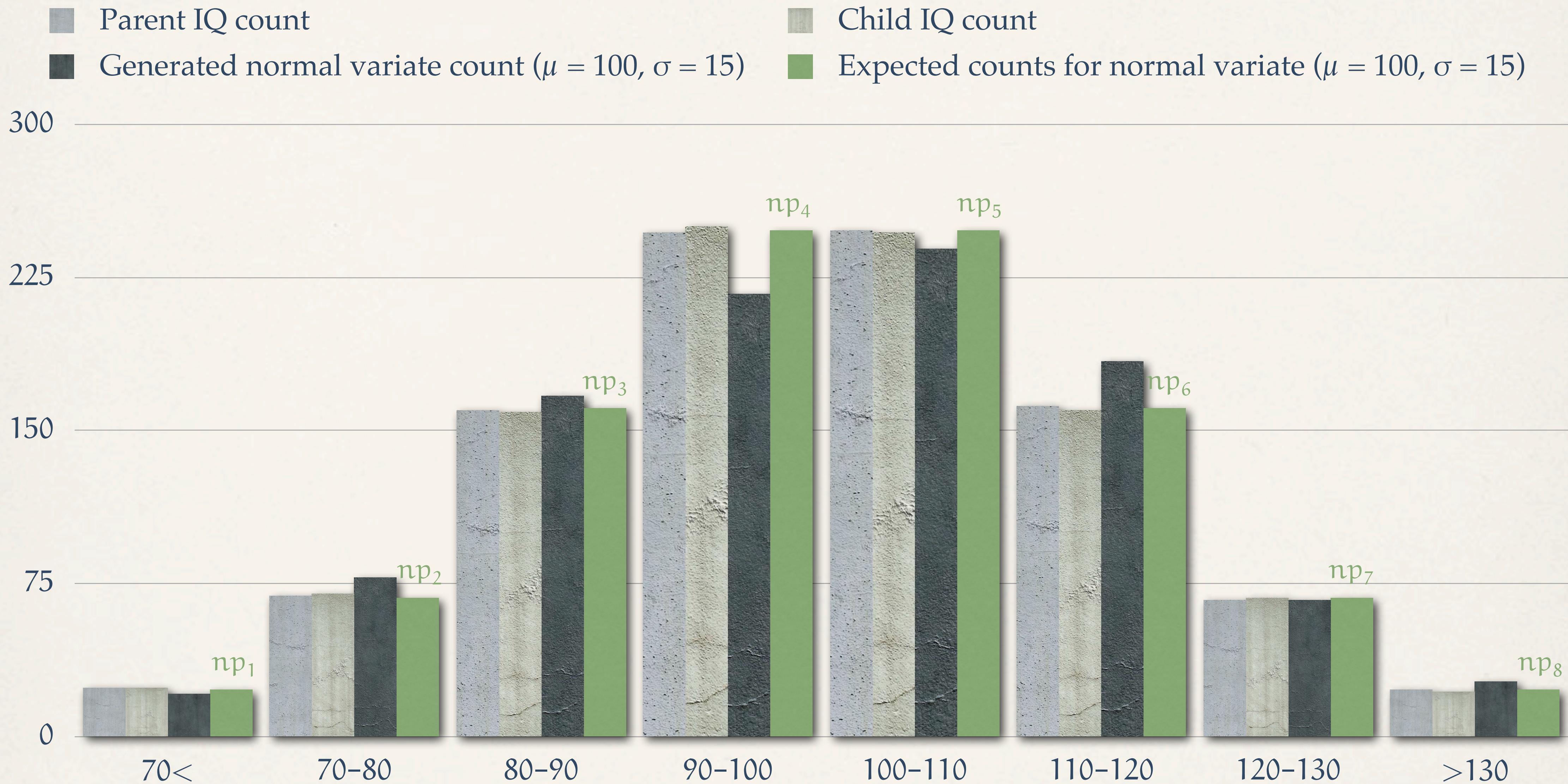
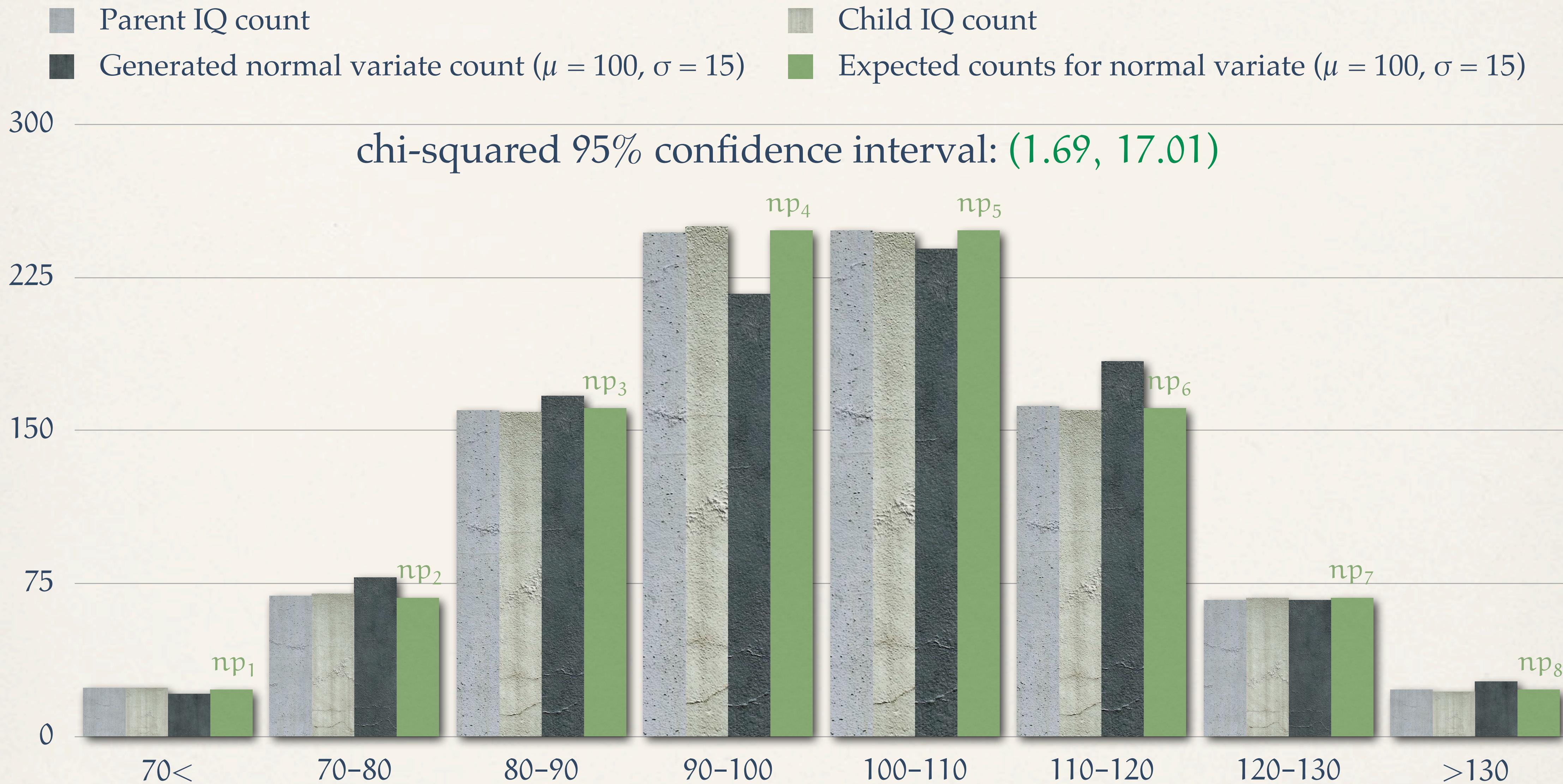


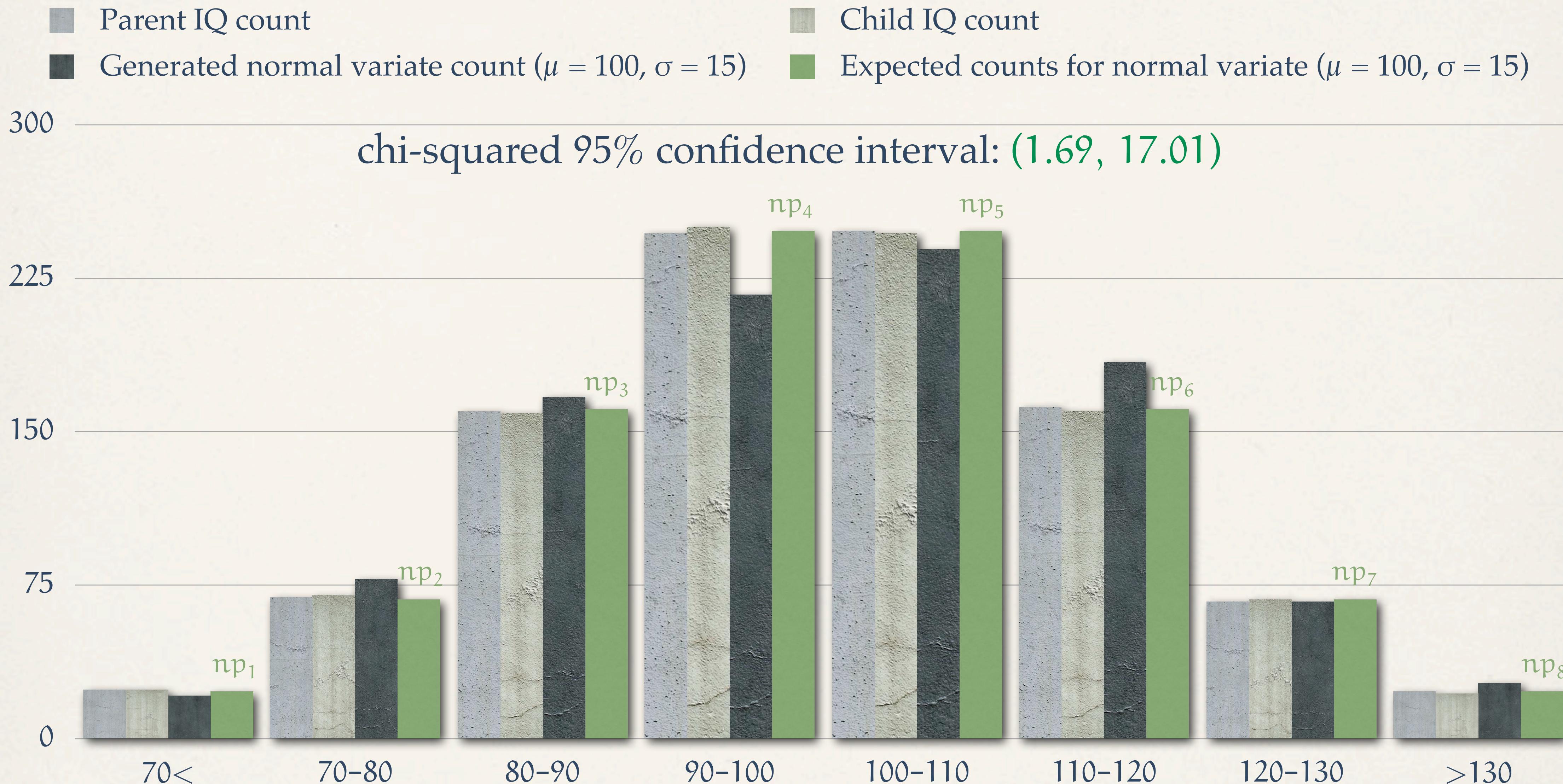
# Nominal sample size $n = 1000$



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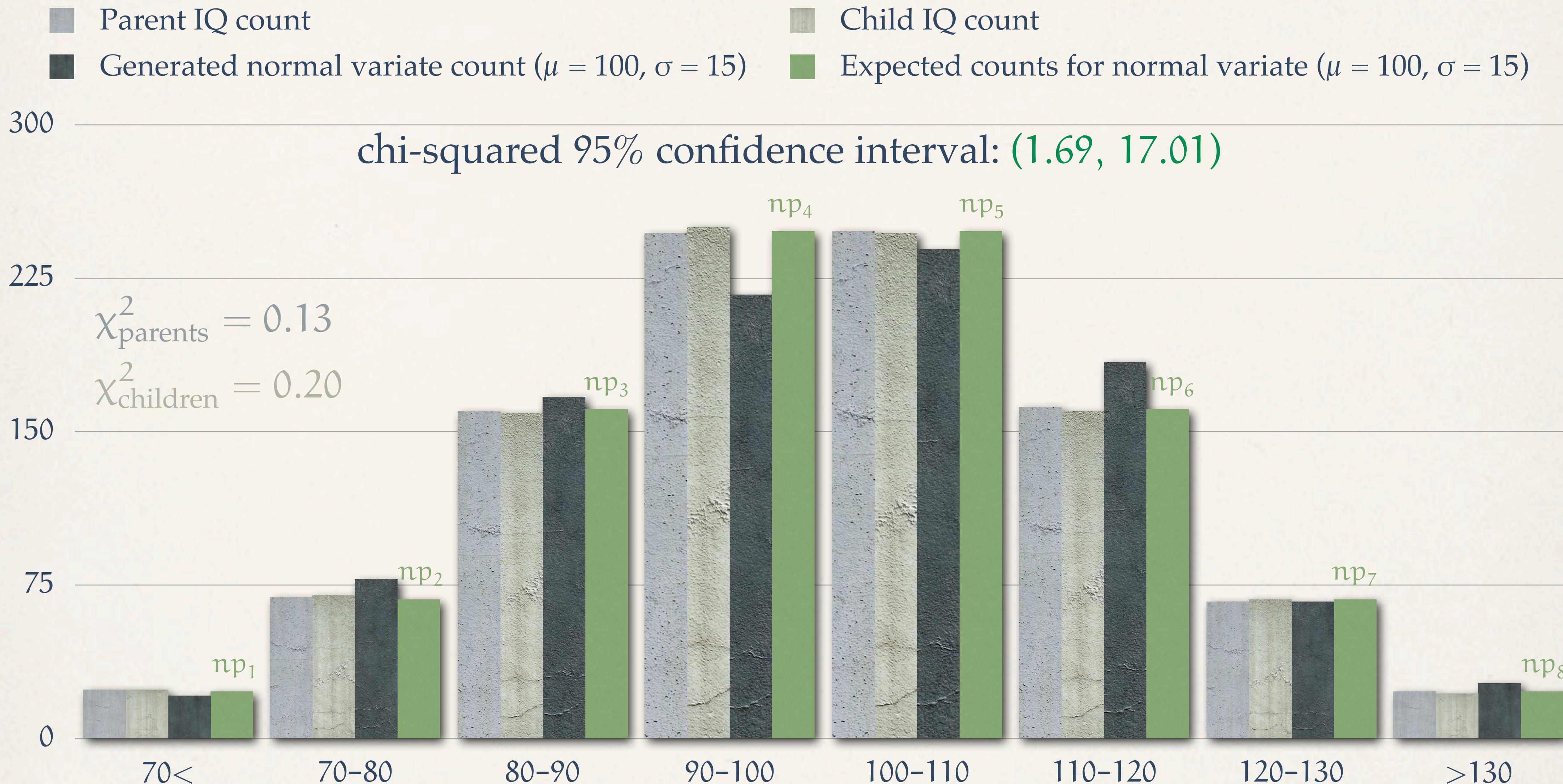


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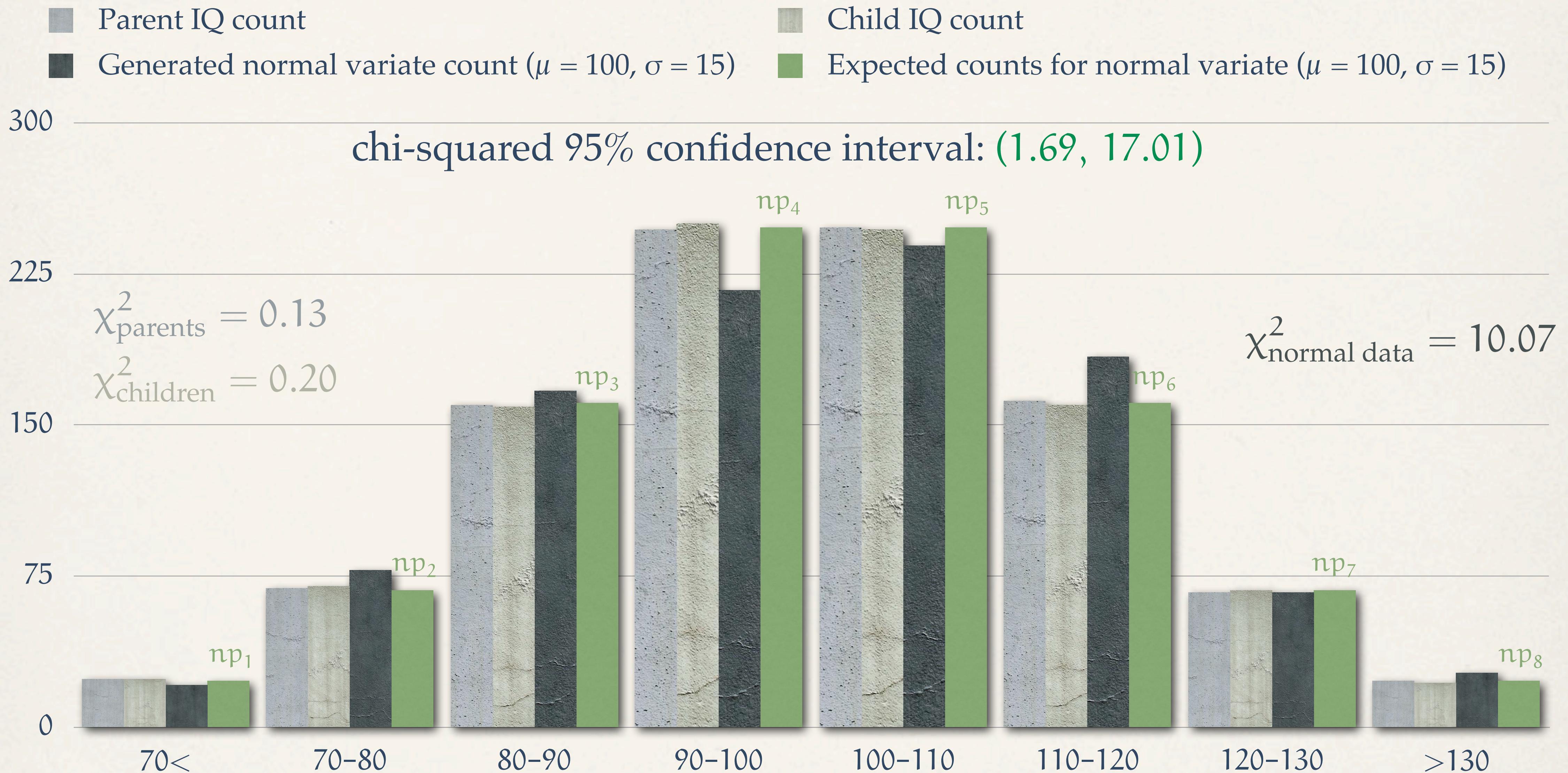
What are the chi-squared values for Burt's IQ data for parents and children?

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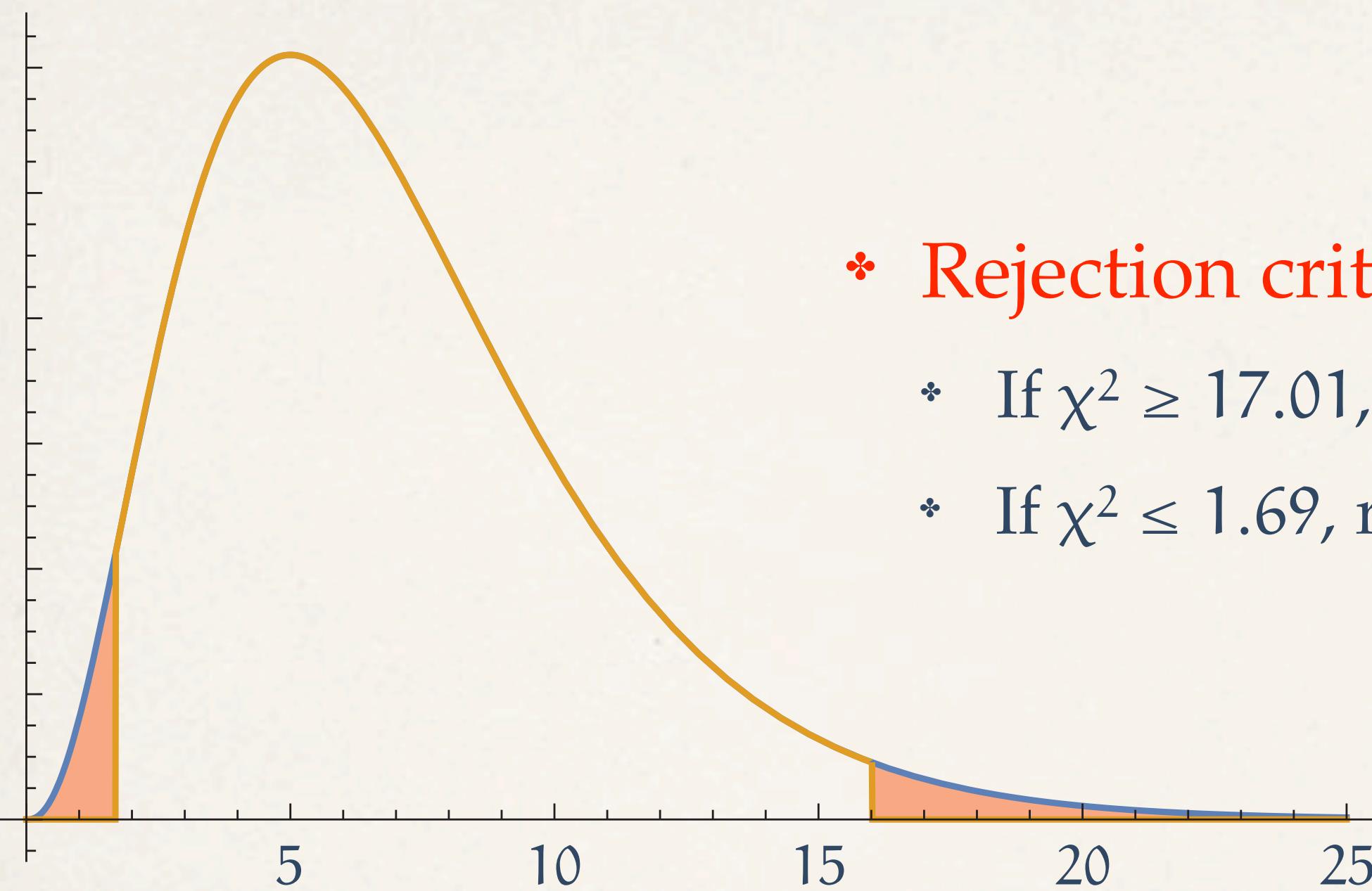


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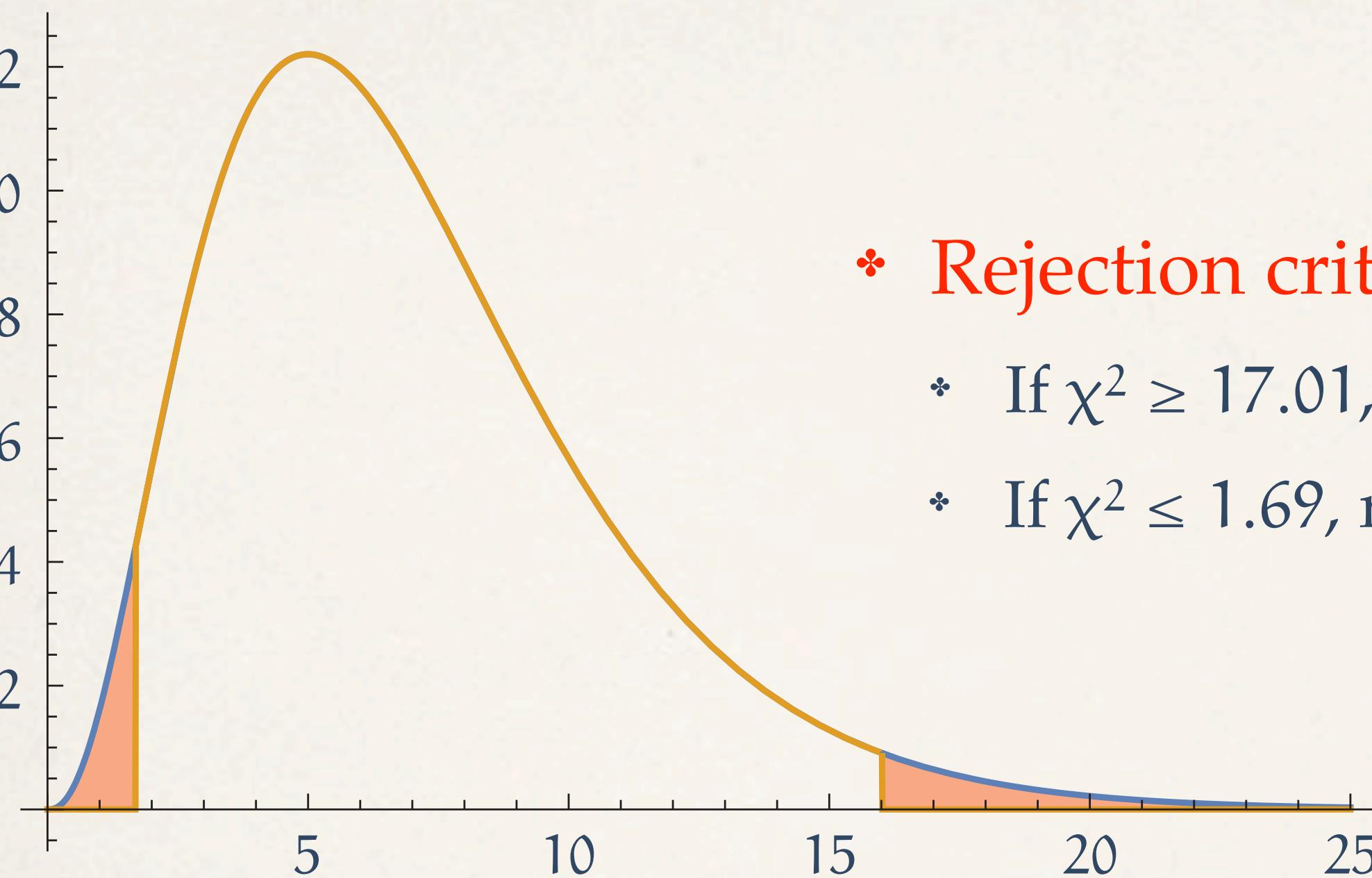
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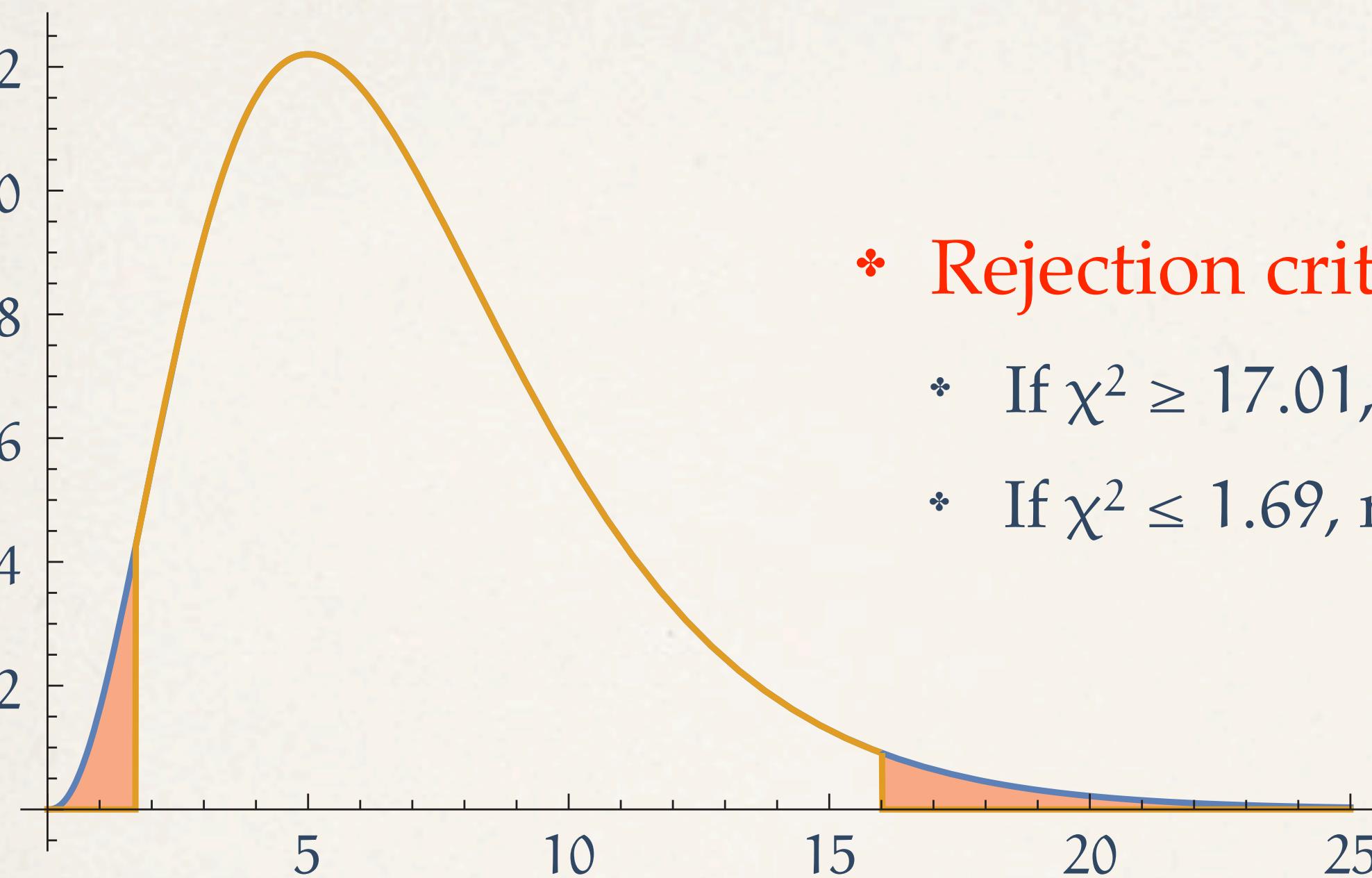


- ❖ Rejection criteria:
  - ❖ If  $\chi^2 \geq 17.01$ , reject on grounds of excessive irregularity.
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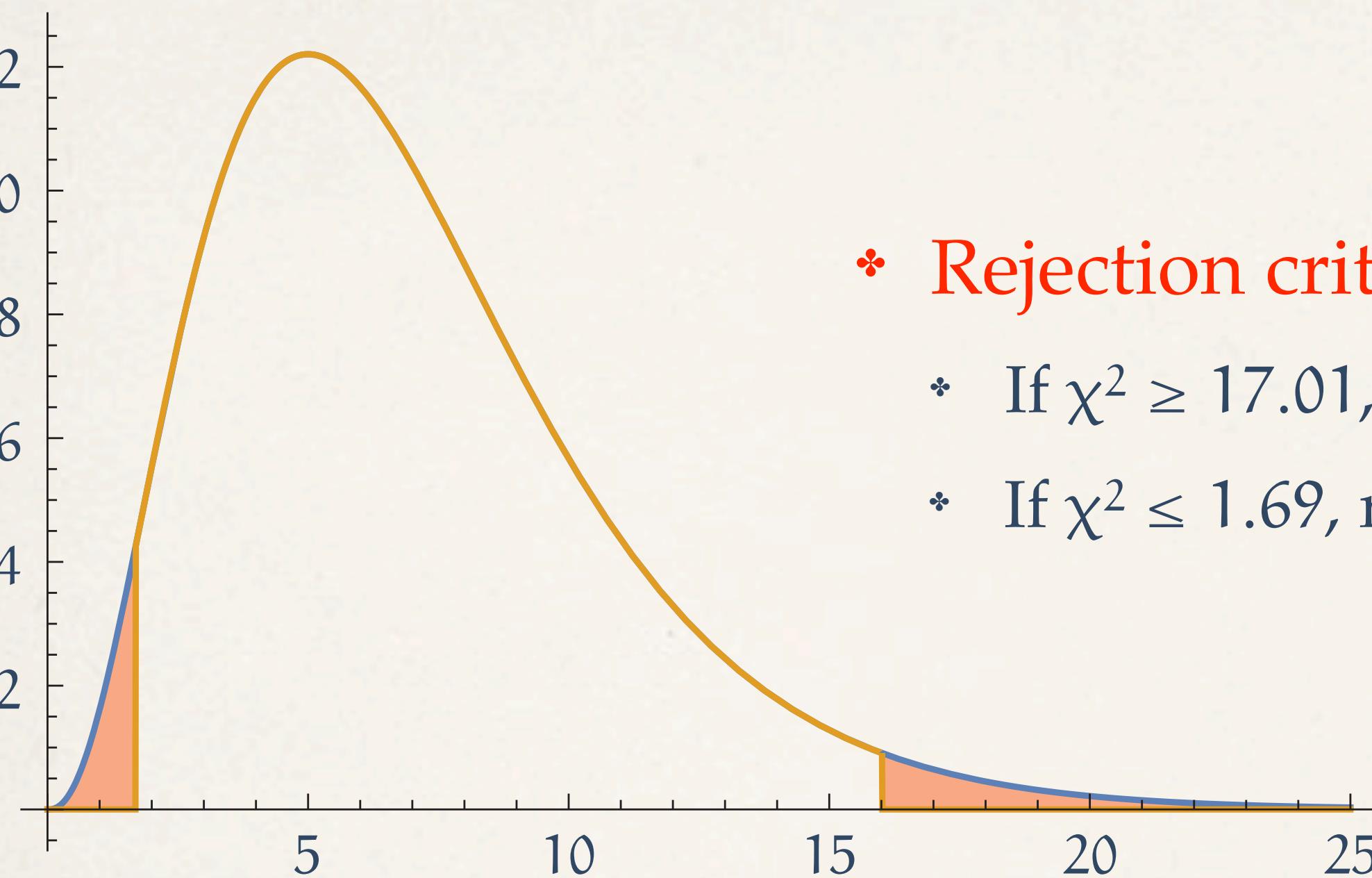
For a sample size of  $1000m$  (scaled proportionately):



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$$\chi_{\text{parents}}^2(m) = 0.13m, \quad \chi_{\text{children}}^2(m) = 0.20m$$

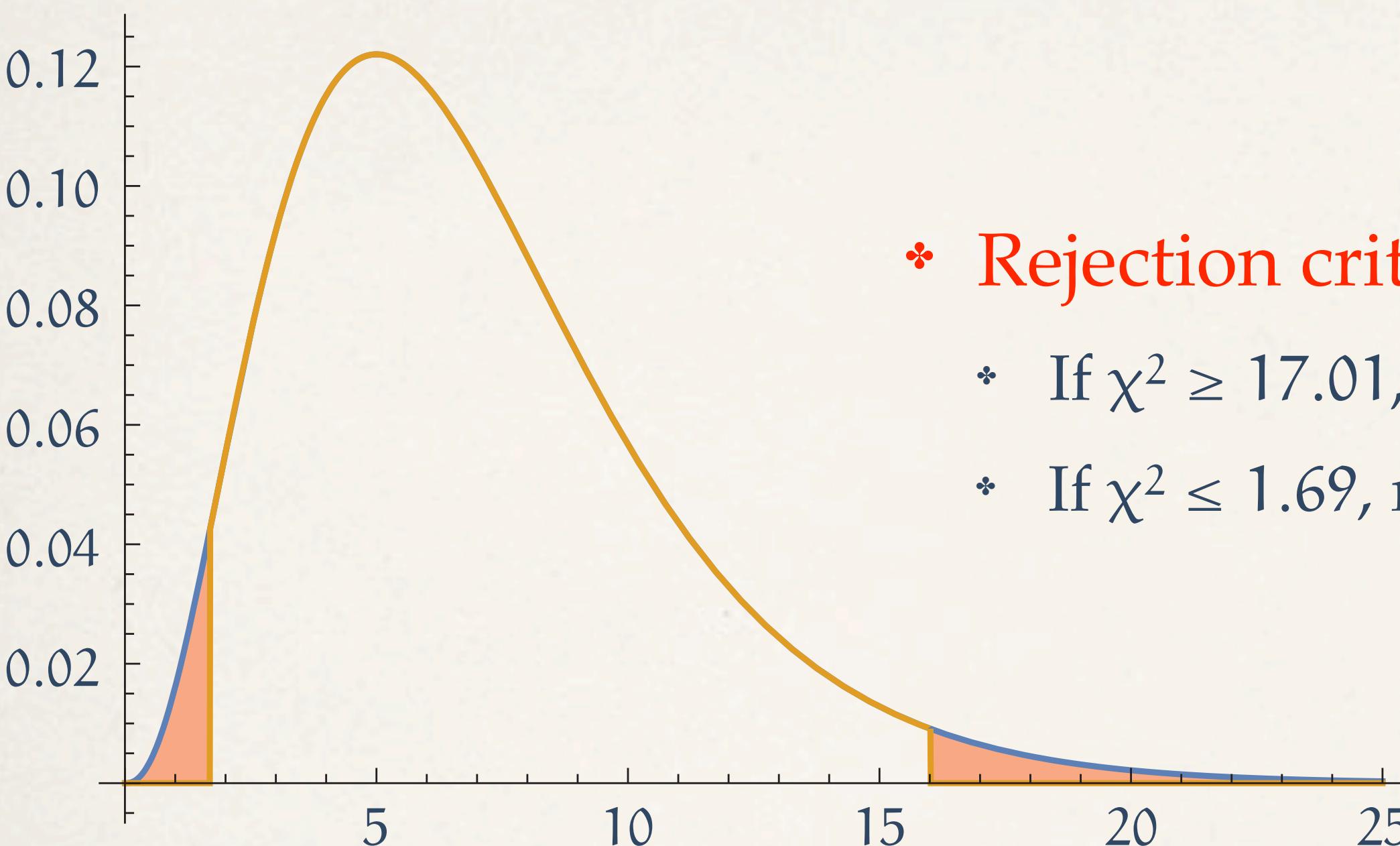


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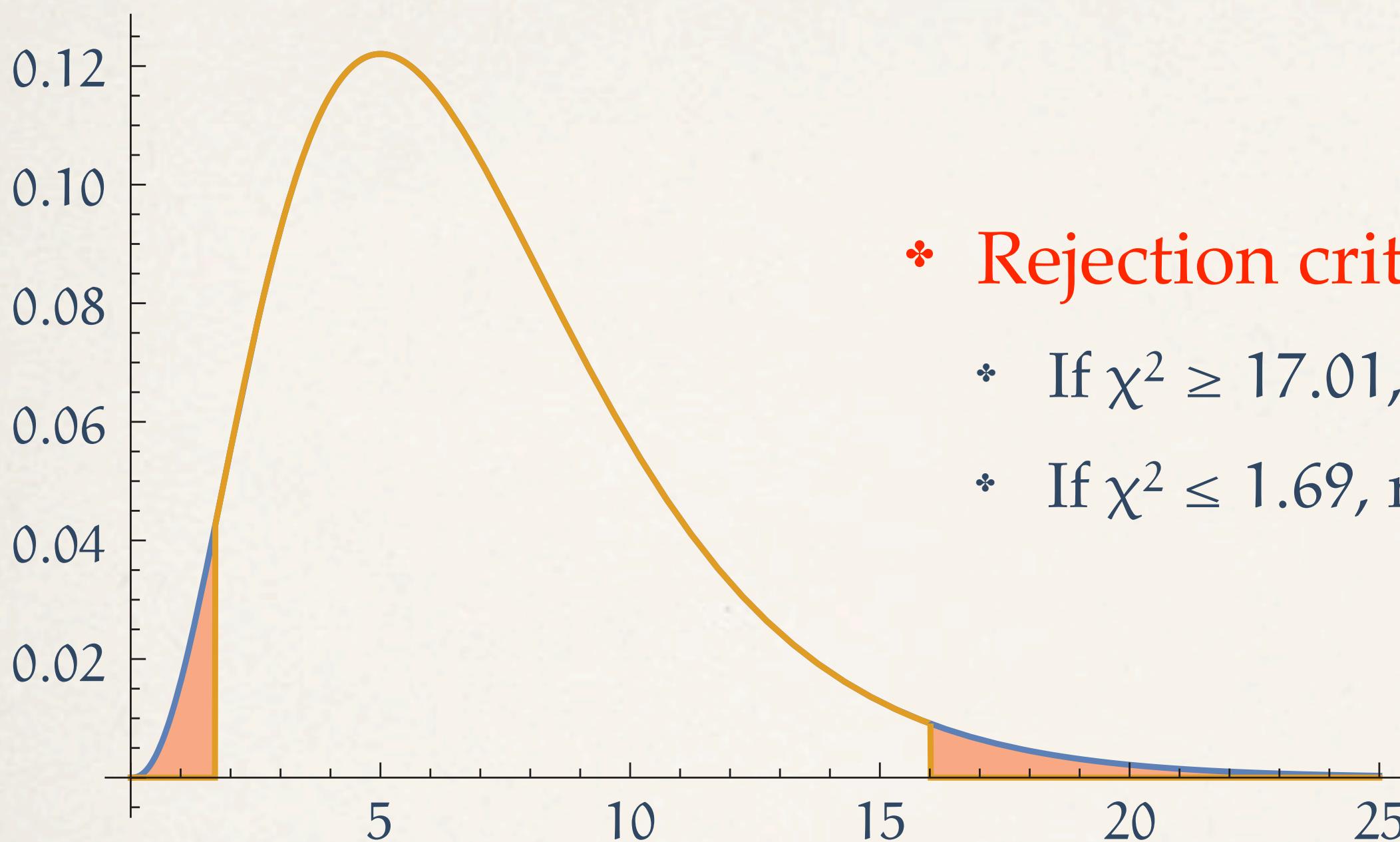
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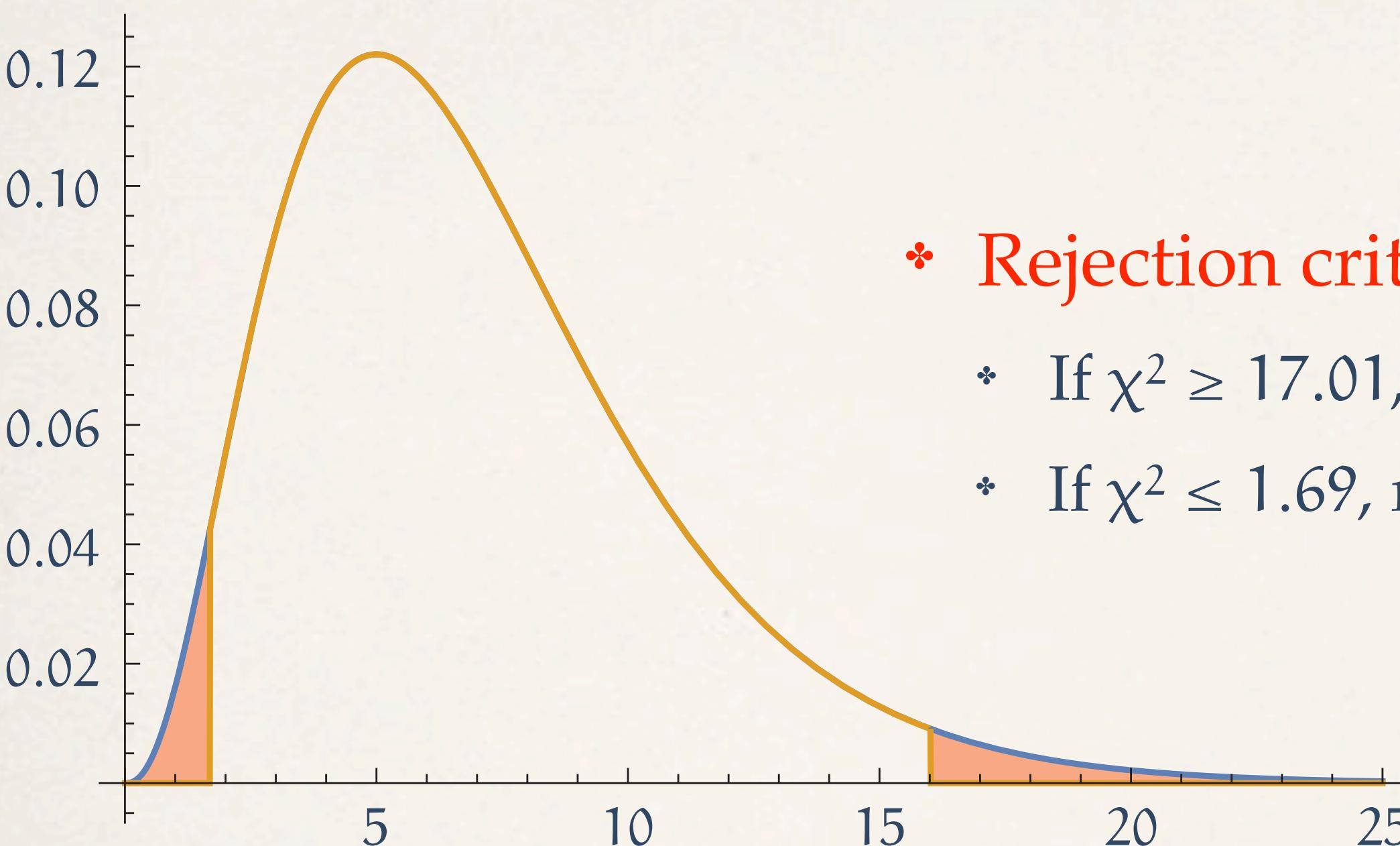
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- ❖ If  $m = 40$ , accept the data as exhibiting the expected level of random fluctuation.
- ❖ Reserve judgment if  $10 < m < 20$ .