Assume that a sample is used to estimate a population proportion *p*. Find the 99.5% confidence interval for a sample of size 323 with 14% successes. Enter your answer as an **open-interval** (*i.e.*, parentheses) using decimals (not percents) accurate to three decimal places.

Sample Size
$$n = 323$$

Comfidence interval = 99.9% = 0.995

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Now Sample Size 383 with 147 . Successes

 14% of 383
 50% = 14% of 383
 $= 0.14(383)$
 $= 45.22\%$ 45

 $= 45$

Now to find open interval, confidence level.

 $1-pnpzinterval \left(\begin{array}{c} X & n \\ 45 & 383 \end{array} \right) = 0.995$
 $= (0.0852310.193)$