



# YMC 2006



## Young Mathematicians Conference 2006

*August 4<sup>th</sup>-6<sup>th</sup> at The Ohio State University.*

### MAXIMIZING SUCCESS IN THE "HAT PROBLEM"

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**Abstract of Report Talk:** Fifteen people are given either a red or a black hat. After the hats are given out, no communication is permitted and no person can see their own hat color. If a person is asked their own hat color, how can they produce a correct answer? Through error-correcting code, I will display how one can predict their own hat color correctly over ninety percent of the time.

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