

MATH CHALLENGE

of the ECU Math Club

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MC10

Without the use of a computer or calculator, find the exact value of

$$\sqrt{1 + \frac{1}{1^2} + \frac{1}{2^2}} + \sqrt{1 + \frac{1}{2^2} + \frac{1}{3^2}} + \dots + \sqrt{1 + \frac{1}{2019^2} + \frac{1}{2020^2}}.$$

Submissions due: 12:00pm, March 2, 2020

Submit solutions to Wallace 410 or to Atilla.Sit@eku.edu (PDF only).

Solutions must include all supporting work.

Top solvers will be recognized.

