

1135-M1-674 **Hossein Behforooz*** (hbehforooz@utica.edu), 34 Emerson Av., Utica, NY 13501. *Playing with Continued Radicals and Iterated Exponents*. Preliminary report.

In real analysis and number theory courses, the study of the Continued Radicals and Continued Fractions and Iterated Exponents are very popular and interesting subjects. In this talk we will present some notes on the calculation of the continued radicals and iterated exponents with integer elements and integer values by using splitting of the integers under radicals in a certain ways which are very bizarre and interesting approaches. Since the time of the lecture is short and the title of the session is “Good Math from Bad: Crackpots, Cranks, and Progress” I promise to follow the title of the session and state the theorems without proofs. That will change my presentation from theoretical approach lecture to a fun and amusement type of lecture. We will see some unexpected contradictory results. Yes, this talk is understandable to high school and undergraduate students. Come and join us. MATH is FUN. (Received September 12, 2017)