Contribution ID: 24

Zigzags with Bürgi, Bernoulli, Euler and the Seidel-Entringer-Arnol'd triangle

Monday, 17 June 2019 10:00 (45 minutes)

We explain nice connections between

• a recently discovered work by Jost Bürgi (1584) on the oldest iteration method;

• a somehow forgotten work of Joh. Bernoulli (1742) on iterated involutes;

• a somehow forgotten work of Désiré André (1879) on alternating permutations and their elegant treatment by R.C. Entringer (1966) as well as their generalizations (the Seidel-Entringer-Arnol'd triangle and the Boustrophedon Theorem).

We meet the Sinus function, the Euler-Bernoulli numbers and the series for $\tan x$ and $\sec x$ several times.

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