

## 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.

**Co-author:** Prof. HENRY, Ph.

**Presenter:** Prof. WANNER, Gerhard (University of Geneva)