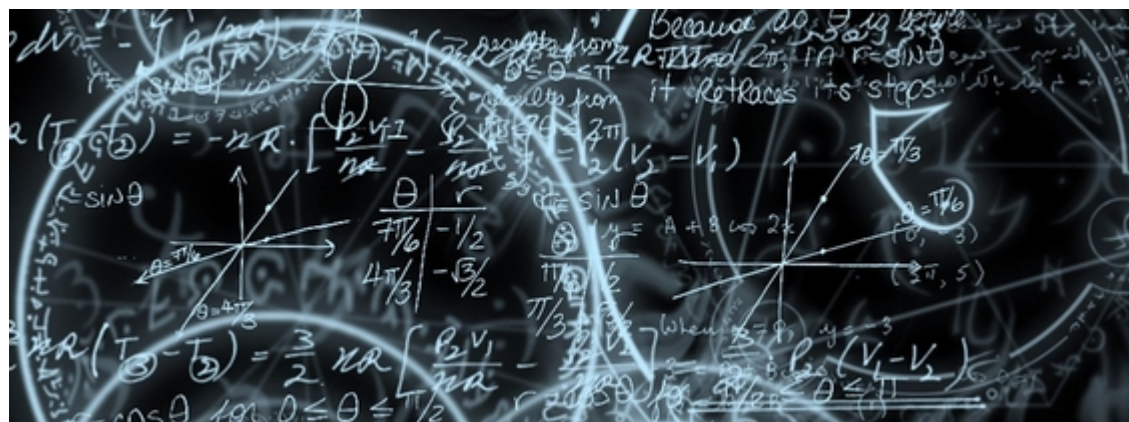


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SEMINARIO DI DIPARTIMENTO - 18/01/2024



giovedì 18 gennaio alle ore 11.30 in Sala di Consiglio

Giovedì 18 gennaio alle ore 11.30 in Sala di Consiglio si terrà il Seminario di Dipartimento del dott **Valeriano Aiello**, risultato vincitore di una procedura selettiva per una posizione da RTT nel SC 01/A3, SSD MAT05.

Speaker: Valeriano Aiello

Titolo: Some Results on Thompson Groups, Their Unitary Representations, a Knot Construction by Jones, and on some Cuntz Algebras

Abstract:

In 2014, Vaughan Jones introduced methods to construct unitary representations of Thompson groups F , T , V (from planar algebras or Cuntz algebras) and another to produce knots from their elements. These unitary representations have been instrumental in understanding the subgroup structure of F , while the knot construction allows for the initiation of a new theory analogous to that of braids and knots, but with the Thompson groups replacing the braid groups. On another topic, several C^ -algebras have been introduced by Cuntz and collaborators. The p -adic ring C^* -algebra is the universal C^* -algebra Q_p generated by an isometry s_p and a unitary u such that $s_p u = u^p s_p$ and $\sum_{i=0}^{p-1} u^{ip}$*

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¹⁾ $u^i s_2 s_2 u^{-i} = 1$. This algebra turns out to be simple and purely infinite.

Inside Q_p , the isometries $T_0 = s_p$, $T_1 = u s_p$, $\dots$, $T_{p-1} = u^{p-1} s_p$ generate a natural copy of the Cuntz algebra O_p . I will report on some results regarding them.