DE CYFRIS. Il qui maximi rebus agendis presunt in dies experient ann su habere aliquem sidissimu cui secretiora instituea & Consilia ira comunicat ut ex ea re sibi nunquam poemitendum su ild quia no facile ob comunem hommu ofidinin datur ur possime ex sentenna Inuerir sunt seribendi ra trones quas Cyfras nuncupant : Comentu quidem.

De Cifris Augustae Taurinorum









Friday, 6 December 2019 – at 15.00 Sala Orsi, Università di Torino Dipartimento di Matematica, Via Carlo Alberto 10

Michele Elia Politecnico di Torino

Continued fractions and factoring

Abstract: Legendre found that the continued fraction expansion of \sqrt{N} having odd period leads directly to an explicit representation of N as the sum of two squares. Similarly, it is shown here that the continued fraction expansion of \sqrt{N} having even period directly produces a factor of a composite N. Shanks' infrastructural method is then revisited, and some consequences of its application to factorization by means of the continued fraction expansion of \sqrt{N} are derived.

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CONTATTI

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