

Code B_2369

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| Department | Mathematics and Computer Sciences |
| UniCa reference person | Stefano Bonzio |
| Project title in English | Algebraic properties of regular varieties |
| Project title in Italian | Proprietà algebriche di varietà regolari |
| Subject area of reference (World University Ranking) | PHYSICAL SCIENCES (inc. Mathematics, Chemistry, Geology, Earth & Marine Sciences) |
| Project summary and VPS' profile | <p>A variety is regular when it satisfies regular identities only, namely identities such that the same set of variables appears on both sides. Particularly interesting are the regularizations of strongly irregular varieties, which can be represented as Plonka sums of members of the starting (strongly) irregular variety.</p> <p>Some (universal) algebraic properties of regularizations are known, for instance the structure of free algebras and the lattice of subvarieties. The project aims to investigate further properties such as the lattice of congruences of regular varieties, amalgamation property, the finite embeddability property and other properties relevant for the logical application of regular varieties.</p> <p>The VPS is expected to have a strong background in universal algebra, with in additional knowledge of the theory of Plonka sums.</p> |
| Proposed length of stay | Short visit of 10 days |
| Expected period of activity | June 2024 |
| Academic position of the VPS' | Professor |
| Course of Study | Laurea magistrale (2nd cycle University Degree), Dottorato di ricerca (PhD Course) |
| Language of instruction | English |