Takefumi Nosaka* (nosaka.t.aa@m.titech.ac.jp), Department of Mathematics Tokyo Institute of Technology, 2-12-1 Ookayama, Meguro-ku, Tokyo, 152-8551, Japan. Milnor invariants via unipotent Magnus embeddings.

We reconfigure the Milnor invariant of links in terms of central group extensions and unipotent Magnus embeddings. We also develop a diagrammatic computation of the invariant and compute the first non-vanishing invariants of the Milnor link and of several other links. Moreover, we refine the original Milnor invariants of higher degree. (Received December 22, 2018)