1070-11-137 John Cullinan* (cullinan@bard.edu), Department of Mathematics, Bard College, Annandale-On-Hudson, NY 12401, and Allison Pacelli, Zev Chonoles, Fan Wei, Hannah Hausman and Sean Pegado. Arithmetic of generalized Riunka polynomials. For each integer $\ell \geq 3$ Rikuna defined a polynomial $r(\ell, x, t)$ over a function field K(t) (with K satisfying some mild burgethease) where Calais group is isomorphic to \mathbf{Z}/ℓ . Managura, these polynomials are generic in the gauge that every

hypotheses) whose Galois group is isomorphic to \mathbf{Z}/ℓ . Moreover, these polynomials are generic in the sense that every \mathbf{Z}/ℓ -extension of K arises as a specialization of $r(\ell, x, t)$.

We generalize Rikuna's polynomials in the context iterated rational functions, show that they give rise to finitelyramified iterated towers, and compute their Galois groups. (Received February 07, 2011)