H. E. A. Eddy Campbell* (eddy@unb.ca), Sir Howard Douglas Hall, 3 Bailey Drive, Fredericton, NB E3B 5A3, Canada, and David L. Wehlau and R J Shank. Modular Invariant Rings of Elementary Abelian p-Groups.

This is work with Jim Shank and David Wehlau that appeared in Transformation Groups, V18, No. 1, 2013, together with a sequel still in progress. We studied rings of invariants of elementary Abelian p-groups in characteristic p. We parameterized all 2 and 3 dimensional representations. We are able to compute the associated invariant rings for all 2 dimensional representations and for 3-dimensional representations for such groups of rank at most 3. These rings are complete intersections of embedding dimension of at most 5. We conjecture that all 3-dimensional representations of an elementary Abelian group of rank r are complete intersections of embedding dimension at most \([r/2] +3\). (Received August 17, 2014)