

an Application

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Subjects: Number Theory (math.NT) Cite as: arXiv:1206.0486 [math.NT] (or arXiv:1206.0486v3 [math.NT] for this version)

**Complete Residue Systems: A Primer and** 

Complete residue systems play an integral role in abstract algebra and number theory, and a

description is typically found in any number theory textbook. This note provides a concise overview of

converse of a well-known theorem, ancillary results pertaining to an application arising from the study of the roots of nonnegative matrices, and extends our knowledge of complete residue systems in

complete residue systems, including a robust definition, several well-known results, a proof to the

(Submitted on 3 Jun 2012 (v1), last revised 17 Aug 2012 (this version, v3))

## Submission history

From: Pietro Paparella Pietro Paparella [view email] [v1] Sun, 3 Jun 2012 20:21:26 GMT (4kb,D) [v2] Tue, 14 Aug 2012 14:06:24 GMT (4kb,D) [v3] Fri, 17 Aug 2012 19:38:28 GMT (4kb,D)

relation to complete sets of roots of unity.

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