

## Re: Question

**Source:** <http://sci.tech-archive.net/Archive/sci.math/2004-09/2919.html>

---

**From:** Ron Sperber ([ronsperber\\_at\\_optonline.net](mailto:ronsperber_at_optonline.net))

**Date:** 09/13/04

Date: Mon, 13 Sep 2004 03:42:58 GMT

John Scott wrote:

> *What that a field of order  $p^2$  exists for every prime  $p$ . Any ideas?*

>

Suppose  $P(x)$  is an irreducible quadratic over  $Z_p$ . What can you say about  $Z_p[x]/(P)$ ?

-Ron