How many finite rings are there?
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For a positive integer $n$, write $f(n)$ for the number of isomorphism classes of rings of order $n$. What can we say about $f(n)$?

Determining $f(n)$ exactly for all $n$ looks unrealistic, but in 1970 Kruse and Price stated an asymptotic result that gives the growth rate of $f(n)$ as $n$ goes to infinity. Sadly, as pointed out by Knopfmacher [?], there is a problem with their proof. I will talk about the problem, how to fix it, and how to improve the error term of the Kruse–Price result.

2 pm, Thursday (!), Oct 28, 2021
Colorado State University
Online via Zoom
https://zoom.us/j/95321487441?pwd=T1p4VG9pejZCekjMmeDFFb1BzeWpsdz09, Meeting ID: 953 2148 7441, Passcode: 722523

This is a joint Denver U / UC Boulder / UC Denver / U of Wyoming / CSU seminar that meets biweekly.