## On the identification of carriers, II. (Integral domains)

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## Abstract

In mathematics, the identification of the carriers of isomorphic algebraic structures, although mathematically inappropriate, is a standard practice.

In this paper we deal with the case of the identification of the carriers of integral domains, and we prove that when an integral domain  $(D_1, +, \cdot)$  is embedded in the integral domain  $(D_2, \oplus, \odot)$ , that is when  $(D_1, +, \cdot)$  is isomorphic to a subdomain  $(A, \oplus', \odot')$  of  $(D_2, \oplus, \odot)$ , we can construct an integral domain  $(D, +, \cdot)$  isomorphic to  $(D_2, \oplus, \odot)$  such that  $(D_1, +, \cdot)$  is indeed, a subdomain of  $(D, +, \cdot)$ .

Keywords and phrases : Carrier, integral domain, isomorphism, restriction.

## 1. Introduction

In the paper titled "On the identification of carriers, I. (Fields)", we considered the isomorphic fields  $(F_1, +, \cdot)$  and  $(E, \oplus', \odot')$  and we proved that the identification of their carriers  $F_1$  and E, which is a