that is $x = x_0 + x_1$; $x = x_0 + x_1 = x_1 = x_1$ Consider a general non zero non unit element y in S,

Now y can be of two possible types i.e. such that

In the first case $y = bx^8(1 + \sum_{i=1}^{n-s} x^i)$; algo ϵ K. We see (1) r₀ = 0, (2) r₀ ≠ 0.

that bx s is a packet, because if

die R or d, = b, x Bi. If d, e R obviously d, | de and if for bx⁸. Further if $bx^8 = d_1 d_2$, s > 0, d_i non units either d, |ds; a contradiction establishing that (p,) of Def. 4 holds R, but then $d_1^n | d_2 f$ or each n and d_2 is of degree s > 0 in x; one of d say d is of degree zero in x and thus belongs to $\mathbf{A}^{\mathbf{Z}} = \mathbf{d}_{\mathbf{f}} \mathbf{d}_{\mathbf{g}}$; denotite and $(\mathbf{d}_{\mathbf{f}}, \mathbf{d}_{\mathbf{g}}) = 1$, then at least

packet . It is obvious that ($1 + \tilde{\lambda} \text{ alx}^{1}$) is a product of N be an integral dessin as ad K to sum up (ps) of Def. 4 holds for bx , that is bx is a to introduce some concepts which are particular case d, divides a power of ds and vice versa. And donain is an essential domain. To achieve this result we need that if $s_{2} = 0$ then $d_{2} \mid d_{1}$ and so we take $u_{2} > 0$ and in this $d_1 = b_1 x^{S_1}, s_1 > 0$ then $d_2 = b_2 x^{S_2}$, where $b_1 b_2 = b$, we note

(1+) is a product of powers of primes and can be atoms . But since, an atom in a Bezout domain is a prime,

written as the product of a finite number of mutually coprime .Isebi famoisperl s at miege sind bos

powers of primes and thus is a product of a finite number of

mutually co-prime packets because a prime power satisfies

the requirements of a packet. Moreover since

of a finite number of mutually co-prime packets.

In the second case, $y = r_0(1 + \sum_i s_i^i x^i)$, where $r_0 \in \mathbb{R}$