



19th INTERNATIONAL CONFERENCE ON
NEAR-RINGS AND NEARFIELDS

Chi-Tou, July 31–August 6, 2005

NEAR-RINGS ON $R[x, y]$

STEFAN VELDSMAN

SULTAN QABOOS UNIVERSITY, OMAN

Let $R[x, y]$ be the ring of polynomials in two commuting indeterminates x and y , R a commutative ring with identity. For two polynomials $f(x, y)$ and $g(x, y)$, there are many different possibilities to define a composition $f(x, y) \circ g(x, y)$ which gives rise to a composition ring structure on $R[x, y]$.

We will discuss some of these together with the properties of the corresponding composition rings.