## Intersection Theory on Mixed Curves Mutsuo Oka

Abstract: We consider two mixed curve $C, C^{\prime} \subset \mathbb{C}^{2}$ which are defined by mixed functions of two variables $\mathbf{z}=\left(z_{1}, z_{2}\right)$. We have shown in our previu paper that they have canonical orientations. If $C$ and $C^{\prime}$ are smooth and intersect transversely at $P$, the intersection number $I_{t o p}\left(C, C^{\prime} ; P\right)$ is topologically defined. We will generalize this definition to the case when the intersection is not necessarily transversal or either $C$ or $C^{\prime}$ may be singular at $P$ using the defining mixed polynomials.

