## **Turkish Journal of Mathematics**

Turkish Journal	The canonical class of a symplectic four manifold
of	R.Fintushel-R.Stern:
Mathematics	<u>Abstract:</u> In this article we present examples of simply connected symplectic 4-manifolds X whose canonical classes are represented by complicated disjoint unions of symplectic submanifolds of X: Theorem. Given finite collections { $g_i$ }, { $m_i$ }, i=1,,n, of positive integers, there is a minimal symplectic
Keywords Authors	simply connected 4-manifold X whose canonical class is represented by a disjoint union of embedded symplectic surfaces K ~ $S_{g_1,1} \ll \ll S_{g_1,m_1} \ll \ll S_{g_n,1} \ll \ll S_{g_n,m_n}$ where $S_{g_i,j}$ is a surface of genus
	g <sub>i</sub> . Furthermore, $c_1^{2}(X) = c_h(X) - (2+b)$ where $b = S\{i=1\}^n m_i$ is the total number of connected components of the symplectic representative of the canonical class.
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