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The canonical ring of a 3-connected curve

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Let C be a Gorenstein curve which is either reduced or contained in a smooth algebraic surface. We show that the canonical ring $R(C, \omega_C)=\oplus_{k \geq 0} H^0(C, \omega_C^k)$ is generated in degree 1 if C is 3-connected and not (honestly) hyperelliptic; we show moreover that $R(C, L)=\oplus_{k \geq 0} H^0(C,L^k)$ is generated in degree 1 if C is reduced and L is an invertible sheaf such that deg $L_{|B} \geq 2p_a(B)+1$ for every subcurve $B \subset C$.

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