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## Complete Intersections on Generic Hypersurfaces of $\mathbb{P}^n$

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Let  $X$  be a generic hypersurface of degree  $d$  in  $\mathbb{P}^n$ . For which integers  $a_1 \leq \dots \leq a_r$  does there exist a complete intersection  $Y \subset X$  whose ideal is generated by  $r$  forms of degrees respectively  $a_1, \dots, a_r$ ?

We give a complete answer to this question when  $2r \leq n + 2$  and some partial results when  $2r > n + 2$ .

This is work that has been done in collaboration with Enrico Carlini (Politecnico di Torino) and Luca Chiantini (Università di Siena).

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