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**CMS Krieger-Nelson Prize**  
**Conférence Krieger-Nelson de la SMC**

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**IZABELLA LABA**, University of British Columbia, Vancouver, BC  
*Geometric measure theory and arithmetic combinatorics*

We will survey a variety of connections between geometric measure theory and arithmetic combinatorics, such as continuous analogues of number-theoretic questions and applications of number-theoretic methods in geometric measure theory. In particular, we will discuss recent joint work with Malabika Pramanik on arithmetic progressions in sparse sets of reals.