

UNIVERSITY OF DELAWARE  
DEPARTMENT OF MATHEMATICAL SCIENCES  
DISCRETE MATHEMATICS SEMINAR

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# Positive Definite Regular Quadratic Forms

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A positive definite quadratic form  $f$  is said to be regular if it represents all positive integers  $n$  for which the congruence  $f \equiv n \pmod{m}$  is solvable for every positive integer  $m$ . In this talk, I will explain why regular ternary quadratic forms receive the most attention and discuss the recent progress on some related problems, for example, spinor regular forms,  $n$ -regular forms, and forms with finite exceptions etc.