Galois Representations
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In the last 30 years representations of (infinite) Galois groups have played an increasingly important role in number theory. Indeed, arithmetic objects such as the Diophantine equation $y^2 = x^3 + x^2 + 1$ or $x^4 + y^3 = z^2$ often have attached Galois representations that ‘know’ the solutions. This talk will survey a small slice of this theory and will be accessible to mathematicians in all disciplines.

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