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Department of Mathematics, 2565 McCarthy Mall, Keller 401A, Honolulu, HI 96822. *Cubic and  
higher degree arboreal Galois representations*. Preliminary report.

We provide an infinite family of cubic polynomials in  $\mathbb{Q}[x]$  for which the image of the arboreal Galois representation is full. We will also discuss more recent work on Galois representations for higher degree polynomials (Received September 26, 2017)