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Categorification of the Fibonacci numbers using representations of quivers

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In a previous paper we have presented a partition formula for the even-index Fibonacci numbers using the preprojective representations of the 3-Kronecker quiver and its universal cover, the 3-regular star. Now we deal in a similar way with the odd-index Fibonacci numbers. The Fibonacci modules introduced here provide a convenient categorification of the Fibonacci numbers.

Subjects: **Representation Theory (math.RT)**; Combinatorics (math.CO)

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