## **Turkish Journal of Mathematics**

Turkish Journal	SU(2) Representations of The Groups of Integer Tangles
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	<u>Abstract:</u> In this work we classify the irreducible SU(2) representations of $\Pi_1(S^3\setminus k_n)$ where $k_n$
Keywords	is an integer n tangle and as a result we have proved the following theorem: Let n be an odd integer then
Authors	$\operatorname{R}^{ast}(\Pi_1(S^3 \operatorname{backslash} k_n)) /SO(3)$ is the disjoint union of n open arcs where $\operatorname{R}^{ast}(\Pi_1(S^3 \operatorname{backslash} k_n)) /SO(3)$
	$(S^3 \ k_n))$ is the space of irreducible representations.
	Key Words: Representation space, knot group, quaternions
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