

THE HAIRY BALL THEOREM

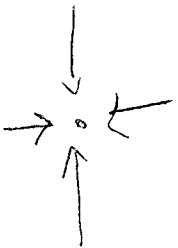
MATH CIRCLE 2-15-2009

EXPLORATION PART II

Part II

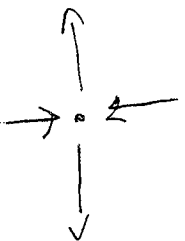
Part A: Indices for different types of zeros

① SINK



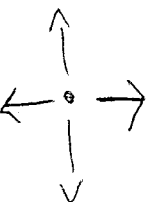
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③ SADDLE



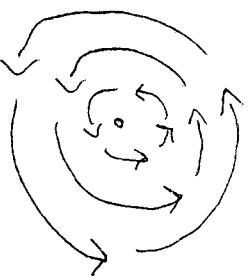
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② SOURCE



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④ CIRCULATION



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⑤ SPIRAL



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⑥



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