

The alternating condition by Ozsvath and Szabo,  
and the wave theorem by Homma, Ochiai, and Takahashi

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**Abstract.** Ozsvath-Szabo proved that knots yielding lens spaces satisfy an alternating condition of the Alexander polynomials. On the other hand, Homma, Ochiai and Takahashi proved the wave theorem for genus 2 Heegaard decomposition of  $S^3$ . The speaker will talk about a relation between the alternating condition and the wave theorem.