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Analysis of decay-time dependence of angular distributions in $B_s^0 \rightarrow J/\psi\phi$ and a measurement of the lifetime difference between B_s^0 CP eigenstates LEAH WELTY, Indiana University, DZERO COLLABORATION — We study the decay processes $B_s^0 \rightarrow J/\psi\phi$ and $B_d^0 \rightarrow J/\psi K^*$ using the first 440 pb⁻¹ of DØ data. We measure the average lifetime and the relative lifetime difference for the B_s^0 system. We also measure the B_d^0 lifetime (assuming a single-exponential decay), and the P -wave fraction R_\perp for B_s^0 and B_d^0 .

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