

**A NOTE ON IDENTITIES INVOLVING RIEMANN ZETA  
FUNCTIONS AND BELL POLYNOMIALS**

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**Abstract:** Our basic aim is to provide some identities and a recurrence relation involving Multiple Zeta Riemann functions (MZVs). We do this by the use of complete and partial Bell polynomials.

**Keywords and Phrases:** Riemann Zeta Function, Multiple Riemann Zeta Function, Integer Compositions, Bell polynomials.

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## **1. Introduction and Background**

In this paper we concern in writing sums of Multiple Zeta Riemann functions (MZVs) as a rational linear combination of products of single Riemann zeta functions. The results found here presents certain similarity to the recent results of Kim et al in [9-12].