# ABSTRAK

**ANALISIS KEMAMPUAN *SPASIAL VISUALIZATION* SISWA PADA MATERI GEOMETRI TRANSFORMASI MENGGUNAKAN**

 **APLIKASI *ZOOM* DI SMA PERSIAPAN STABAT**

**T.P.2020/2021**

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Kemampuan spasial visualization haruslah dimiliki setiap siswa pada pembelajaran matematika. Unsur spasial terdapat dalam geometri. Masih banyak siswa mengalami kesulitan mentransformasi objek geometri. Penelitian ini bertujuan menganalisis kemampuan spasial visualization siswa menggunakan aplikasi zoom. Jenis penelitian ini adalah penelitian kualitatif dengan metode deskriptif. Populasi penelitian ini siswa kelas XI SMA Persiapan Stabat tahun 2020/2021. Pengambilan sampel menggunakan teknik purposive sampling. Hasil penelitian menunjukkan bahwa (1) siswa dengan kategori kemampuan matematika tinggi mampu memenuhi indikator kemampuan spasial visualization (2) siswa dengan tingkat kategori kemampuan matematika sedang hanya mampu memenuhi beberapa indikator spasial visualization (3) siswa dengan kemampuan matematika rendah belum mampu memenuhi beberapa indikator spasial visualization dan masih mengalami kesulitan (4) persentase kesalahan siswa pada pemecahan masalah soal translasi sebesar 66.66% dalam kategori tinggi , rotasi sebesar 0 % dalam kategori sangat rendah, refleksi sebesar 0% dalam kategori sangat rendah, dilatasi sebesar 83,33% dalam kategori sangat tinggi.

**Kata kunci :** *Spasial Visualization*, geometri transformasi dan aplikasi zoom.

# *ABSTRACT*

***ANALYSIS OF STUDENT'S SPATIAL VISUALIZATION ABILITY ON TRANSFORMATION GEOMETRY MATERIALS USING***

 ***ZOOM APPLICATION IN SMA STABAT***

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*The ability of spatial visualization must be possessed by every student in learning mathematics. Spatial elements exist in geometry. There are still many students who have difficulty transforming geometric objects. This study aims to analyze students' spatial visualization skills using the zoom application. This type of research is a qualitative research with descriptive method. The population of this research is students of class XI SMA Preparation Stabat in 2020/2021. Sampling using purposive sampling technique. The results showed that (1) students with high mathematical ability category were able to meet the indicators of spatial visualization ability (2) students with moderate level of mathematical ability category were only able to fulfill several spatial visualization indicators (3) students with low mathematical ability had not been able to fulfill several spatial indicators. visualization and still having difficulties (4) the percentage of student errors in problem solving translation problems is 66.66% in the high category, rotation is 0% in the very low category, reflection is 0% in the very low category, dilation is 83.33% in the very category high.*

***Keywords :*** *Spatial Visualization, geometry transformation and zoom application.*