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On the Normalizer of the Congruence Subgroup  $H_0^5(\mathfrak{l})$  of the Hecke Group  $H^5$

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**Abstract:** Let  $l = 2 \cos \frac{\pi}{5}$  and let  $H^5$  be the Hecke group associated to  $l$ . In this paper, the normalizers of the congruence subgroups  $H_0^5(\mathfrak{l})$  in  $\text{PSL}(2, \mathbb{Z}[\frac{1}{l}])$  are studied in the case where  $l = (2)^{\alpha} l'$ ,  $(2, l') = 1$  and  $l'$  is a prime ideal.

**Key Words:** Normalizer, Congruence subgroup, Hecke group



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