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Optical detectors based on birefringent $ZnP_2-C_{2h}^5$ Title crystals I.G. Stamov, N.N. Sîrbu, A.V. Dorogan Authors **Technical University of Moldova** Institution Pending patent application Patent no. The spectral dependences of refractive indexes $n_0(n^{\perp})$, $n_0(n^{\parallel})$ and $\Delta n = n_0(n^{\perp}) - n_0(n^{\parallel})$ had been studied in **Description EN** $ZnP_2 - C_{2k}^5$ crystals and an intersection of $n_0(n^{\perp})$ and

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 $n_e(n^{\parallel})$ was found for $\lambda_0=0.906\mu$ m. The electrical, spectral and azimuth characteristics of monolith n-pand $Me-n-p-ZnP_2-C_{2h}^5$, and

discrete $ZnP_2 - C_{2h}^5 - ZnP_2 - D_8^4$ structures had been, also, studied. These crystals possess positive dispersion $\Delta n = n_0(n^{\perp}) - n_e(n^{\parallel})$ for $\lambda > \lambda_0$ and a negative dispersion for $\lambda < \lambda_0$. This gives possibilities to elaborate and manufacture optical detectors sensible on polarized light and make a prognosis on the usage perspective of these devices. 5, 10

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