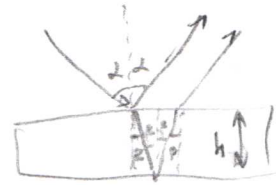
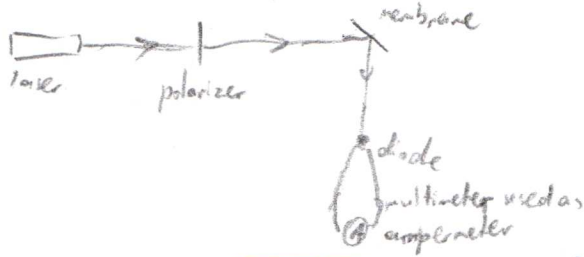
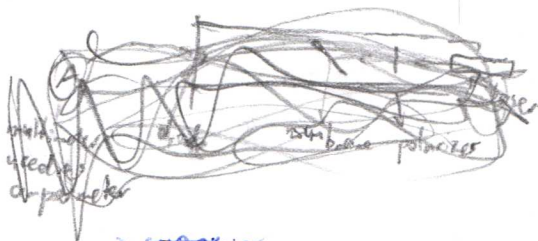


B. ~~The two interfering beams have~~ The two interfering beams have ~~difference between~~ optical path difference



$$\delta_1 = n_0 \cdot \frac{2h}{\cos \beta} ; \sin \beta = \frac{\sin \theta}{n_0} \Rightarrow \cos \beta = \sqrt{1 - \frac{\sin^2 \theta}{n_0^2}} \Rightarrow \delta_1 = \frac{2hn_0}{\sqrt{1 - \frac{\sin^2 \theta}{n_0^2}}}$$

Their phase difference is  $\Delta \varphi = \frac{\delta_1}{\lambda} \cdot 2\pi$ . If  $\frac{\delta_1}{\lambda} = k$ , the intensity has a local maximum and if  $\frac{\delta_1}{\lambda} = k + \frac{1}{2}$ , it has a local minimum. (k is an integer)



We observe ~~maxima at~~ ~~angles~~ ~~of~~ ~~11.5, 15, 17.5, 19.5, 21, 22.5, 23.5, 25.5, 27.5, 29.5, 31, 32.5, 33.5, 35.5, 37.5, 39.5, 41, 42.5, 43.5, 45.5, 47.5, 49.5, 51, 52.5, 53.5, 55.5, 57.5, 59.5, 61, 62.5, 63.5, 65.5, 67.5, 69.5, 71, 72.5, 73.5, 75.5, 77.5, 79.5, 81, 82.5, 83.5, 85.5, 87.5, 89.5, 91, 92.5, 93.5, 95.5, 97.5, 99.5, 101, 102.5, 103.5, 105.5, 107.5, 109.5, 111, 112.5, 113.5, 115.5, 117.5, 119.5, 121, 122.5, 123.5, 125.5, 127.5, 129.5, 131, 132.5, 133.5, 135.5, 137.5, 139.5, 141, 142.5, 143.5, 145.5, 147.5, 149.5, 151, 152.5, 153.5, 155.5, 157.5, 159.5, 161, 162.5, 163.5, 165.5, 167.5, 169.5, 171, 172.5, 173.5, 175.5, 177.5, 179.5, 181, 182.5, 183.5, 185.5, 187.5, 189.5, 191, 192.5, 193.5, 195.5, 197.5, 199.5, 201, 202.5, 203.5, 205.5, 207.5, 209.5, 211, 212.5, 213.5, 215.5, 217.5, 219.5, 221, 222.5, 223.5, 225.5, 227.5, 229.5, 231, 232.5, 233.5, 235.5, 237.5, 239.5, 241, 242.5, 243.5, 245.5, 247.5, 249.5, 251, 252.5, 253.5, 255.5, 257.5, 259.5, 261, 262.5, 263.5, 265.5, 267.5, 269.5, 271, 272.5, 273.5, 275.5, 277.5, 279.5, 281, 282.5, 283.5, 285.5, 287.5, 289.5, 291, 292.5, 293.5, 295.5, 297.5, 299.5, 301, 302.5, 303.5, 305.5, 307.5, 309.5, 311, 312.5, 313.5, 315.5, 317.5, 319.5, 321, 322.5, 323.5, 325.5, 327.5, 329.5, 331, 332.5, 333.5, 335.5, 337.5, 339.5, 341, 342.5, 343.5, 345.5, 347.5, 349.5, 351, 352.5, 353.5, 355.5, 357.5, 359.5, 361, 362.5, 363.5, 365.5, 367.5, 369.5, 371, 372.5, 373.5, 375.5, 377.5, 379.5, 381, 382.5, 383.5, 385.5, 387.5, 389.5, 391, 392.5, 393.5, 395.5, 397.5, 399.5, 401, 402.5, 403.5, 405.5, 407.5, 409.5, 411, 412.5, 413.5, 415.5, 417.5, 419.5, 421, 422.5, 423.5, 425.5, 427.5, 429.5, 431, 432.5, 433.5, 435.5, 437.5, 439.5, 441, 442.5, 443.5, 445.5, 447.5, 449.5, 451, 452.5, 453.5, 455.5, 457.5, 459.5, 461, 462.5, 463.5, 465.5, 467.5, 469.5, 471, 472.5, 473.5, 475.5, 477.5, 479.5, 481, 482.5, 483.5, 485.5, 487.5, 489.5, 491, 492.5, 493.5, 495.5, 497.5, 499.5, 501, 502.5, 503.5, 505.5, 507.5, 509.5, 511, 512.5, 513.5, 515.5, 517.5, 519.5, 521, 522.5, 523.5, 525.5, 527.5, 529.5, 531, 532.5, 533.5, 535.5, 537.5, 539.5, 541, 542.5, 543.5, 545.5, 547.5, 549.5, 551, 552.5, 553.5, 555.5, 557.5, 559.5, 561, 562.5, 563.5, 565.5, 567.5, 569.5, 571, 572.5, 573.5, 575.5, 577.5, 579.5, 581, 582.5, 583.5, 585.5, 587.5, 589.5, 591, 592.5, 593.5, 595.5, 597.5, 599.5, 601, 602.5, 603.5, 605.5, 607.5, 609.5, 611, 612.5, 613.5, 615.5, 617.5, 619.5, 621, 622.5, 623.5, 625.5, 627.5, 629.5, 631, 632.5, 633.5, 635.5, 637.5, 639.5, 641, 642.5, 643.5, 645.5, 647.5, 649.5, 651, 652.5, 653.5, 655.5, 657.5, 659.5, 661, 662.5, 663.5, 665.5, 667.5, 669.5, 671, 672.5, 673.5, 675.5, 677.5, 679.5, 681, 682.5, 683.5, 685.5, 687.5, 689.5, 691, 692.5, 693.5, 695.5, 697.5, 699.5, 701, 702.5, 703.5, 705.5, 707.5, 709.5, 711, 712.5, 713.5, 715.5, 717.5, 719.5, 721, 722.5, 723.5, 725.5, 727.5, 729.5, 731, 732.5, 733.5, 735.5, 737.5, 739.5, 741, 742.5, 743.5, 745.5, 747.5, 749.5, 751, 752.5, 753.5, 755.5, 757.5, 759.5, 761, 762.5, 763.5, 765.5, 767.5, 769.5, 771, 772.5, 773.5, 775.5, 777.5, 779.5, 781, 782.5, 783.5, 785.5, 787.5, 789.5, 791, 792.5, 793.5, 795.5, 797.5, 799.5, 801, 802.5, 803.5, 805.5, 807.5, 809.5, 811, 812.5, 813.5, 815.5, 817.5, 819.5, 821, 822.5, 823.5, 825.5, 827.5, 829.5, 831, 832.5, 833.5, 835.5, 837.5, 839.5, 841, 842.5, 843.5, 845.5, 847.5, 849.5, 851, 852.5, 853.5, 855.5, 857.5, 859.5, 861, 862.5, 863.5, 865.5, 867.5, 869.5, 871, 872.5, 873.5, 875.5, 877.5, 879.5, 881, 882.5, 883.5, 885.5, 887.5, 889.5, 891, 892.5, 893.5, 895.5, 897.5, 899.5, 901, 902.5, 903.5, 905.5, 907.5, 909.5, 911, 912.5, 913.5, 915.5, 917.5, 919.5, 921, 922.5, 923.5, 925.5, 927.5, 929.5, 931, 932.5, 933.5, 935.5, 937.5, 939.5, 941, 942.5, 943.5, 945.5, 947.5, 949.5, 951, 952.5, 953.5, 955.5, 957.5, 959.5, 961, 962.5, 963.5, 965.5, 967.5, 969.5, 971, 972.5, 973.5, 975.5, 977.5, 979.5, 981, 982.5, 983.5, 985.5, 987.5, 989.5, 991, 992.5, 993.5, 995.5, 997.5, 999.5, 1001, 1002.5, 1003.5, 1005.5, 1007.5, 1009.5, 1011, 1012.5, 1013.5, 1015.5, 1017.5, 1019.5, 1021, 1022.5, 1023.5, 1025.5, 1027.5, 1029.5, 1031, 1032.5, 1033.5, 1035.5, 1037.5, 1039.5, 1041, 1042.5, 1043.5, 1045.5, 1047.5, 1049.5, 1051, 1052.5, 1053.5, 1055.5, 1057.5, 1059.5, 1061, 1062.5, 1063.5, 1065.5, 1067.5, 1069.5, 1071, 1072.5, 1073.5, 1075.5, 1077.5, 1079.5, 1081, 1082.5, 1083.5, 1085.5, 1087.5, 1089.5, 1091, 1092.5, 1093.5, 1095.5, 1097.5, 1099.5, 1101, 1102.5, 1103.5, 1105.5, 1107.5, 1109.5, 1111, 1112.5, 1113.5, 1115.5, 1117.5, 1119.5, 1121, 1122.5, 1123.5, 1125.5, 1127.5, 1129.5, 1131, 1132.5, 1133.5, 1135.5, 1137.5, 1139.5, 1141, 1142.5, 1143.5, 1145.5, 1147.5, 1149.5, 1151, 1152.5, 1153.5, 1155.5, 1157.5, 1159.5, 1161, 1162.5, 1163.5, 1165.5, 1167.5, 1169.5, 1171, 1172.5, 1173.5, 1175.5, 1177.5, 1179.5, 1181, 1182.5, 1183.5, 1185.5, 1187.5, 1189.5, 1191, 1192.5, 1193.5, 1195.5, 1197.5, 1199.5, 1201, 1202.5, 1203.5, 1205.5, 1207.5, 1209.5, 1211, 1212.5, 1213.5, 1215.5, 1217.5, 1219.5, 1221, 1222.5, 1223.5, 1225.5, 1227.5, 1229.5, 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1881, 1882.5, 1883.5, 1885.5, 1887.5, 1889.5, 1891, 1892.5, 1893.5, 1895.5, 1897.5, 1899.5, 1901, 1902.5, 1903.5, 1905.5, 1907.5, 1909.5, 1911, 1912.5, 1913.5, 1915.5, 1917.5, 1919.5, 1921, 1922.5, 1923.5, 1925.5, 1927.5, 1929.5, 1931, 1932.5, 1933.5, 1935.5, 1937.5, 1939.5, 1941, 1942.5, 1943.5, 1945.5, 1947.5, 1949.5, 1951, 1952.5, 1953.5, 1955.5, 1957.5, 1959.5, 1961, 1962.5, 1963.5, 1965.5, 1967.5, 1969.5, 1971, 1972.5, 1973.5, 1975.5, 1977.5, 1979.5, 1981, 1982.5, 1983.5, 1985.5, 1987.5, 1989.5, 1991, 1992.5, 1993.5, 1995.5, 1997.5, 1999.5, 2001, 2002.5, 2003.5, 2005.5, 2007.5, 2009.5, 2011, 2012.5, 2013.5, 2015.5, 2017.5, 2019.5, 2021, 2022.5, 2023.5, 2025.5, 2027.5, 2029.5, 2031, 2032.5, 2033.5, 2035.5, 2037.5, 2039.5, 2041, 2042.5, 2043.5, 2045.5, 2047.5, 2049.5, 2051, 2052.5, 2053.5, 2055.5, 2057.5, 2059.5, 2061, 2062.5, 2063.5, 2065.5, 2067.5, 2069.5, 2071, 2072.5, 2073.5, 2075.5, 2077.5, 2079.5, 2081, 2082.5, 2083.5, 2085.5, 2087.5, 2089.5, 2091, 2092.5, 2093.5, 2095.5, 2097.5, 2099.5, 2101, 2102.5, 2103.5, 2105.5, 2107.5, 2109.5, 2111, 2112.5, 2113.5, 2115.5, 2117.5, 2119.5, 2121, 2122.5, 2123.5, 2125.5, 2127.5, 2129.5, 2131, 2132.5, 2133.5, 2135.5, 2137.5, 2139.5, 2141, 2142.5, 2143.5, 2145.5, 2147.5, 2149.5, 2151, 2152.5, 2153.5, 2155.5, 2157.5, 2159.5, 2161, 2162.5, 2163.5, 2165.5, 2167.5, 2169.5, 2171, 2172.5, 2173.5, 2175.5, 2177.5, 2179.5, 2181, 2182.5, 2183.5, 2185.5, 2187.5, 2189.5, 2191, 2192.5, 2193.5, 2195.5, 2197.5, 2199.5, 2201, 2202.5, 2203.5, 2205.5, 2207.5, 2209.5, 2211, 2212.5, 2213.5, 2215.5, 2217.5, 2219.5, 2221, 2222.5, 2223.5, 2225.5, 2227.5, 2229.5, 2231, 2232.5, 2233.5, 2235.5, 2237.5, 2239.5, 2241, 2242.5, 2243.5, 2245.5, 2247.5, 2249.5, 2251, 2252.5, 2253.5, 2255.5, 2257.5, 2259.5, 2261, 2262.5, 2263.5, 2265.5, 2267.5, 2269.5, 2271, 2272.5, 2273.5, 2275.5, 2277.5, 2279.5, 2281, 2282.5, 2283.5, 2285.5, 2287.5, 2289.5, 2291, 2292.5, 2293.5, 2295.5, 2297.5, 2299.5, 2301, 2302.5, 2303.5, 2305.5, 2307.5, 2309.5, 2311, 2312.5, 2313.5, 2315.5, 2317.5, 2319.5, 2321, 2322.5, 2323.5, 2325.5, 2327.5, 2329.5, 2331, 2332.5, 2333.5, 2335.5, 2337.5, 2339.5, 2341, 2342.5, 2343.5, 2345.5, 2347.5, 2349.5, 2351, 2352.5, 2353.5, 2355.5, 2357.5, 2359.5, 2361, 2362.5, 2363.5, 2365.5, 2367.5, 2369.5, 2371, 2372.5, 2373.5, 2375.5, 2377.5, 2379.5, 2381, 2382.5, 2383.5, 2385.5, 2387.5, 2389.5, 2391, 2392.5, 2393.5, 2395.5, 2397.5, 2399.5, 2401, 2402.5, 2403.5, 2405.5, 2407.5, 2409.5, 2411, 2412.5, 2413.5, 2415.5, 2417.5, 2419.5, 2421, 2422.5, 2423.5, 2425.5, 2427.5, 2429.5, 2431, 2432.5, 2433.5, 2435.5, 2437.5, 2439.5, 2441, 2442.5, 2443.5, 2445.5, 2447.5, 2449.5, 2451, 2452.5, 2453.5, 2455.5, 2457.5, 2459.5, 2461, 2462.5, 2463.5, 2465.5, 2467.5, 2469.5, 2471, 2472.5, 2473.5, 2475.5, 2477.5, 2479.5, 2481, 2482.5, 2483.5, 2485.5, 2487.5, 2489.5, 2491, 2492.5, 2493.5, 2495.5, 2497.5, 2499.5, 2501, 2502.5, 2503.5, 2505.5, 2507.5, 2509.5, 2511, 2512.5, 2513.5, 2515.5, 2517.5, 2519.5, 2521, 2522.5, 2523.5, 2525.5, 2527.5, 2529.5, 2531, 2532.5, 2533.5, 2535.5, 2537.5, 2539.5, 2541, 2542.5, 2543.5, 2545.5, 2547.5, 2549.5, 2551, 2552.5, 2553.5, 2555.5, 2557.5, 2559.5, 2561, 2562.5, 2563.5, 2565.5, 2567.5, 2569.5, 2571, 2572.5, 2573.5, 2575.5, 2577.5, 2579.5, 2581, 2582.5, 2583.5, 2585.5, 2587.5, 2589.5, 2591, 2592.5, 2593.5, 2595.5, 2597.5, 2599.5, 2601, 2602.5, 2603.5, 2605.5, 2607.5, 2609.5, 2611, 2612.5, 2613.5, 2615.5, 2617.5, 2619.5, 2621, 2622.5, 2623.5, 2625.5, 2627.5, 2629.5, 2631, 2632.5, 2633.5, 2635.5, 2637.5, 2639.5, 2641, 2642.5, 2643.5~~

$$C. n_2 = \frac{\sin \alpha}{\sin \beta_2} \Rightarrow \frac{\sin^2 \beta_2}{\sin^2 \alpha} = \frac{\cos^2 \beta_2}{n_2^2} + \frac{\sin^2 \beta_2}{n_2^2} \Rightarrow \frac{\cos^2 \beta_2}{n_2^2} = \frac{1 - \sin^2 \beta_2}{n_2^2} = \frac{1 - \frac{\sin^2 \alpha}{n_2^2}}{n_2^2} = \frac{1}{n_2^2} - \frac{\sin^2 \alpha}{n_2^4}$$

$$\cos^2 \beta_2 \delta = h(n_1 \cos \beta_1 - n_2 \cos \beta_2) \Rightarrow \delta = h(n_1 \cos \beta_1 - \sin \alpha \cos \beta_2) \Rightarrow \cos^2 \beta_2$$

$$\cos^2 \beta_2 \sin \beta_2 (n_1 \cos \beta_1 - \delta) = \cos^2 \beta_2 h \sin \alpha \Rightarrow \sin^2 \beta_2 (n_1 \cos \beta_1 - \delta)^2 = \cos^2 \beta_2 h^2 \sin^2 \alpha$$

$$\sin^2 \beta_2 = \frac{h^2 \sin^2 \alpha}{(n_1 \cos \beta_1 - \delta)^2 + h^2 \sin^2 \alpha}; \cos^2 \beta_2 = \frac{(n_1 \cos \beta_1 - \delta)^2}{(n_1 \cos \beta_1 - \delta)^2 + h^2 \sin^2 \alpha}$$

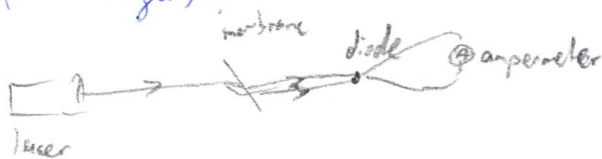
$$\sin \beta_1 = \frac{\sin \alpha}{n_1}; n_1 = n_2 \Rightarrow n_1 \cos \beta_1 = \sqrt{n_0^2 - \sin^2 \alpha}$$

$$n_2 = \frac{\sin^2 \beta_2}{\frac{\sin^2 \alpha}{n_2^2} - \frac{\cos^2 \beta_2}{n_2^2}} = \frac{h^2 \sin^2 \alpha}{\frac{h^2 \sin^2 \alpha}{n_2^2} - \frac{(n_1 \cos \beta_1 - \delta)^2}{n_2^2}} = \frac{h^2 \sin^2 \alpha n_2^2}{n_2^2 h^2 - (n_1 \cos \beta_1 - \delta)^2} =$$

$$= \frac{h^2 \sin^2 \alpha n_0^2}{n_0^2 h^2 - n_0^2 h^2 \sin^2 \alpha + h^2 \sin^2 \alpha + 2h \sqrt{n_0^2 - \sin^2 \alpha} \delta - \delta^2} = n_0^2 \frac{1}{1 + \frac{2h \delta \sqrt{n_0^2 - \sin^2 \alpha}}{h^2 \sin^2 \alpha} - \frac{\delta^2}{h^2 \sin^2 \alpha}} \approx n_0^2 \left( 1 - \frac{2h \delta \sqrt{n_0^2 - \sin^2 \alpha}}{h^2 \sin^2 \alpha} + \frac{\delta^2}{h^2 \sin^2 \alpha} \right)$$

$$\Rightarrow |n_2 - n_0| = \Delta n_2 = \left| \frac{2h \delta \sqrt{n_0^2 - \sin^2 \alpha} - \delta^2}{2n_0 h^2 \sin^2 \alpha} \right|$$

If  $\delta = k \cdot \lambda$ , the intensity has a local maximum and if  $\delta = (k + \frac{1}{2}) \lambda$ , it has a local minimum (k - integer)



We observe a maximum at  $\alpha = 28^\circ$ . If  $k=1 \Rightarrow \delta = 860 \text{ nm} \Rightarrow \Delta n = 0.029$

$$\Rightarrow p = 0.34$$

$$D. A = \frac{d \cdot p}{h} \Rightarrow d = \frac{A \cdot h}{p} = 950 \text{ nm}$$